

JVC

SERVICE MANUAL

LCD FLAT TELEVISION

LT-20A5, LT-20A5/s



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SPECIFICATION

Item		Contents
Dimensions (W × H × D)		54.1cm × 41.6cm × 9.2cm (TV only) 54.1cm × 47.7cm × 12.6cm (Included Stand)
Mass		9.0kg (TV only) 10.2kg (Included Stand)
TV RF System		CCIR B/G, I, D/K, L
Color System		PAL / SECAM / NTSC3.58 / NTSC4.43
Sound System		A2 (B/G, D/K), NICAM (B/G, I, D/K), NTSC-M
Teletext System		FLOF (Fastext), WST (World Standard System)
TV Receiving Channels	VHF Low VHF High UHF CATV	48.25MHz ~ 158MHz 160MHz ~ 442MHz 442MHz ~ 863.25MHz Mid : X ~ Z+2, S1 ~ S10 Super : S11 ~ S20 Hyper : S21 ~ S41
Power Input	TV AC Adapter	DC 12V AC 110V ~ AC 240V, 50Hz / 60Hz
Power Consumption		60W (Stand-by : 1W)
LCD Panel		20.1V wide aspect (15 : 9)
Screen Size		Diagonal : 51.0cm (H : 40.8cm × V : 30.6cm)
Display Pixels		Horizontal : 640 pixels x Vertical : 480 pixels (VGA)
Audio Power Output		3W + 3W
Speaker		5.4cm round type × 2
Antenna Terminal		75Ω unbalanced, coaxial
Video/Audio Input	[VIDEO-1] S-Video Video Audio [VIDEO-2] Component Video Audio	Mini-DIN 4pin × 1 Y : 1V(p-p), positive (negative sync), 75Ω C : 0.286V(p-p), (Burst signal), 75Ω 1V(p-p), positive (negative sync), 75Ω, RCA pin jack × 1 500mV(rms), high inpedance, RCA pin jack × 2 RCA pin jack × 3 Y : 1V(p-p), positive (negative sync), 75Ω Pb/Pr : 0.7V(p-p), 75Ω 500mV(rms), high inpedance, RCA pin jack × 2
Headphone		3.5mm mini jack × 1
Remote Control Unit		RM-C1861 (AA/R6/UM-3 battery × 2)
AC Adapter		DA-E061370334

NOTE : Design & specifications are subject to change without notice.

SECTION 1

PRECAUTION

1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND, the ISOLATED (NEUTRAL) : ($\text{—}\frac{1}{2}$) side GND and EARTH : (\oplus) side GND.
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (5) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- (6) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- (7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10k Ω 2W resistor to the anode button.

- (8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

- (9) **Isolation Check (Safety for Electrical Shock Hazard)**
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) Dielectric Strength Test

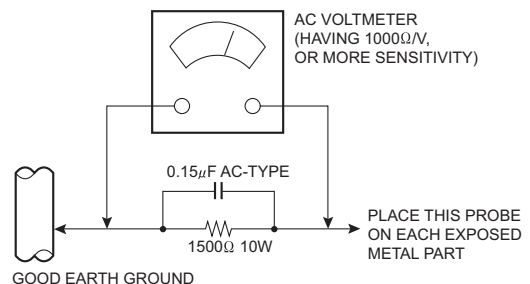
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

b) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 Ω /V or more sensitivity in the following manner. Connect a 1500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



1.2 INSTALLATION

1.2.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.

1.2.2 INSTALLATION REQUIREMENTS

Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls.

Install the unit on stable flooring or stands.

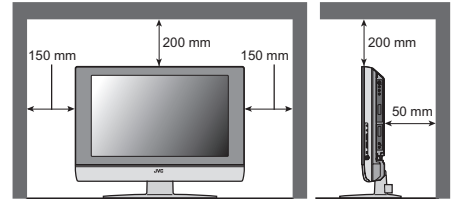
Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.

Distance recommendations

Avoid improper installation and never position the unit where good ventilation is impossible.

When installing this TV, distance recommendations must be maintained between the set and the wall, as well as inside a tightly enclosed area or piece of furniture.

Keep to the minimum distance guidelines shown for safe operation.



1.3 PRECAUTIONS

- (1) The picture brightness may become uneven on the entire screen according to the environmental temperature. Be sure to use your monitor set in a specified temperature range for proper display presentation.
- (2) Avoid disturbing the heat dissipation from the vent holes provided in the rear, on the top and at the sides. Failure to do so may result in damaged electronics inside due to the accumulated heat within the unit.
- (3) Be sure to install the unit in a well-ventilated place. Also make sure that the ambient temperature is kept in the range of 0 to 35°C.
- (4) Avoid operation or storage in high temperature and humidity that exceed the specified limit. Otherwise, the display presentation may be deteriorated.
- (5) This monitor may display a blurred picture when exposed to an extreme environmental conditions. This phenomenon is due to an intrinsic characteristic of the Liquid Crystal Display (LCD). This is not the failure.
- (6) This monitor display uses a Cold Cathode Tube as a backlighting device. The brilliance of this tube (and the monitor display) may be degraded by time.

1.4 CAUTIONS FOR TRANSPORTATION

The goods may be damaged during transportation caused by poor handling such as throwing, toppling, dropping, etc, giving an excess force against the LCD device. This may happen even if the packing is rigid and secured. To avoid such adverse situations, give a proper instruction to the freighter for secured handling. The LCD panel uses a glass plate, which is very fragile against an external force. Take utmost care to avoid vibration or shock to the panel.

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 ABOUT LIQUID CRYSTAL DISPLAY

2.1.1 STRUCTURE OF LIQUID CRYSTAL PANEL

The Liquid Crystal Display used for this unit is of a TFT (Thin Film Transistor) type panel. The structure of this panel is that a TFT array-formed substrate and the stripe pixel matrix type color filter substrate are pressed together with a liquid crystal filled in between these materials.

2.1.2 LONG-TERM AFTERIMAGE ON THE LCD

A minute amount of ionic material could be mingled into a liquid crystal substrate in the manufacturing process. By applying the electricity to the panel the ionic material may be migrated towards one part of the electrodes, causing a long-term afterimage to be displayed. In practice, when a still image is displayed for a long time, the afterimage may be developed and persisted. To cure this problem, turn off the unit and then turn on again and arrange displaying an appropriate still image on the portion where the afterimage is being superimposed.

2.1.3 RESPONSE SPEED OF THE LCD

The LCD is slower than the CRT in terms of the display refresh rate, causing a fast moving picture may be displayed blurred. This is not fault but caused by an intrinsic characteristic of the LCD.

2.1.4 VIEWING ANGLE OF THE LCD

This LCD uses a wide-angle liquid crystal panel, featuring a low rate of the brightness inversion. When viewed from a far outer angle, the screen may be displayed with hue variation. Again, this is not fault but caused by an intrinsic characteristic of the LCD.

2.1.5 PIXEL DEFICIENCY OF THE LCD

The liquid crystal panel is manufactured with precise engineering procedure. However, there is a possibility of yielding a little amount of defective pixels in part on the panel. This is unavoidable feature even if the latest technology is being used for manufacturing the LCD module.

2.2 IMPORTANT NOTICE WHEN REPLACING COMPONENT PARTS

2.2.1 REPLACING THE LCD MODULE

- (1) The LCD panel is fragile against the static charge. Be sure to take an appropriate grounding using a grounding-strap etc. when to replace the LCD panel.
- (2) The LCD is made of glass, which is fragile against the mechanical shock. Use utmost care when handling the LCD panel.
- (3) When replacing the panel, first place the panel on the base chassis and then make sure that there is no gap in between the panel and the chassis. Fix the panel with fixing screws. Turn the unit on with an all-black signal being put in and check if the brightness is even on the entire screen. If the brightness is not even in some part, slacken the fixing screw nearby until the brightness becomes even with other parts.
- (4) A tightening torque for the fixing screws must be set to 0.294Nm or the less. Applying the torque larger than this limit may result in the damage on the LCD panel.
- (5) Connecting or disconnecting the plugs with the set is being powered may cause the malfunction of the set. Makes sure that the AC power plug is disconnected from the power source when attempting the replacement work.

2.2.2 REPLACING THE FUSE

Be sure to use the rated fuse. After replacing the fuse, confirm that the insulator is stuck on the shielding surface for secure insulation.

SECTION 3 DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

CAUTION:

- Prior to disassembly, unplug the power cord and AC adapter from the AC outlet without fail. (Turn the power "off".)
- When exchanging parts etc. with the front side (LCD side) facing down, please place a protection sheet below before starting, so as to prevent scratches on the front side.

3.1.1 REMOVING THE CABLE COVER (L/R) AND NECK COVER (Fig.1)

- (1) Remove the 4 claws [A].
- (2) Remove the CABLE COVER (L), CABLE COVER (R) and NECK COVER.

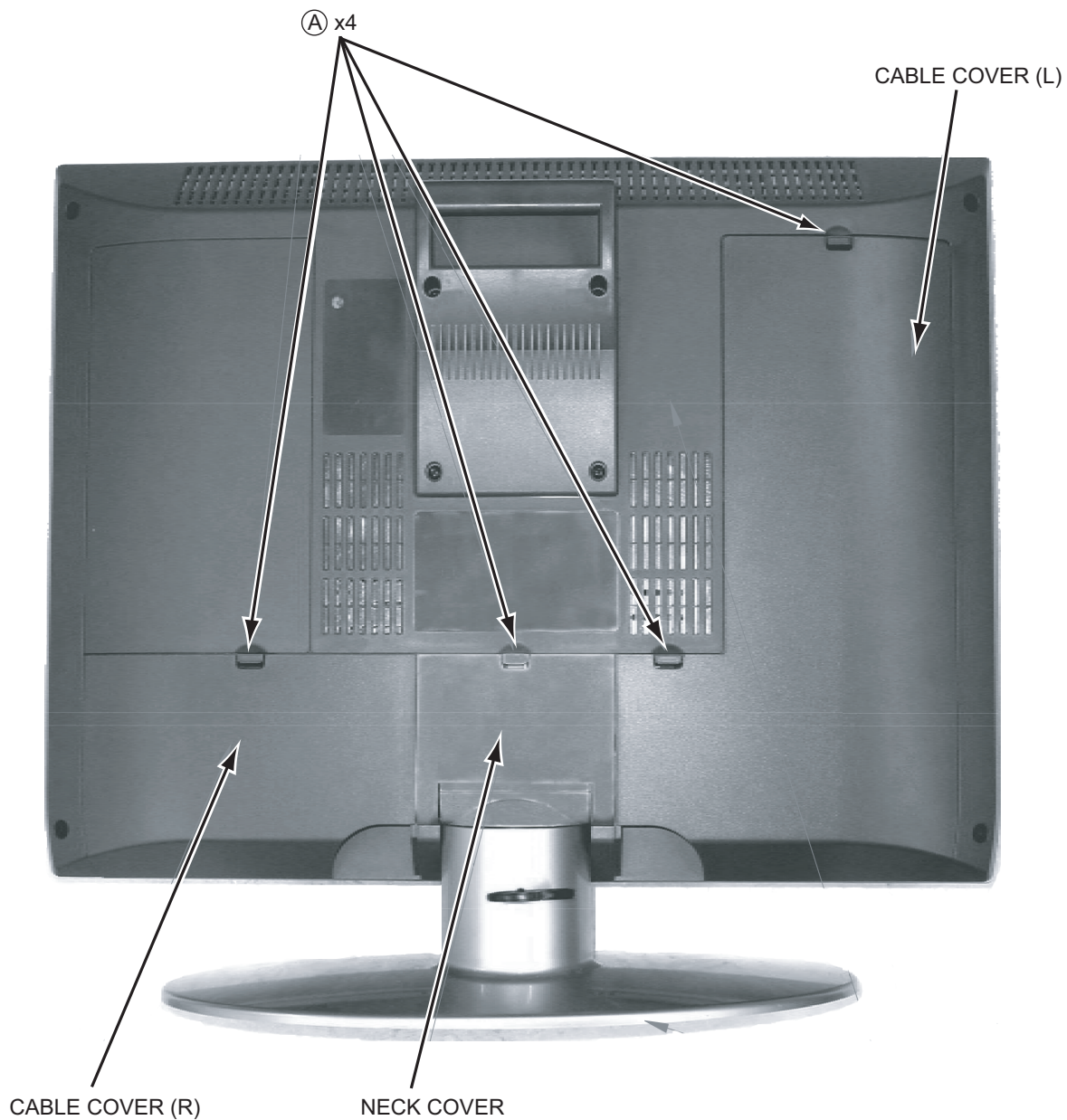


Fig.1

3.1.2 REMOVING THE STAND ASS'Y (Fig.2)

- Remove the NECK COVER.
(1) Remove the 4 screws [B] and remove the STAND ASS'Y.

3.1.3 REMOVING THE TUNER MODULE (Fig.2)

- Remove the CABLE COVER (R).
(1) Remove the DUMMY COVER by pulling the claw [C].
(2) Remove the 1 claw [C] and remove the TUNER COVER.
(3) Remove the TUNER MODULE by pulling carefully.

3.1.4 REMOVING THE AV JACK MODULE (Fig.2)

- Remove the CABLE COVER (L).
(1) Loosen the 2 screws [D].
(2) Remove the AV JACK MODULE by pulling carefully.

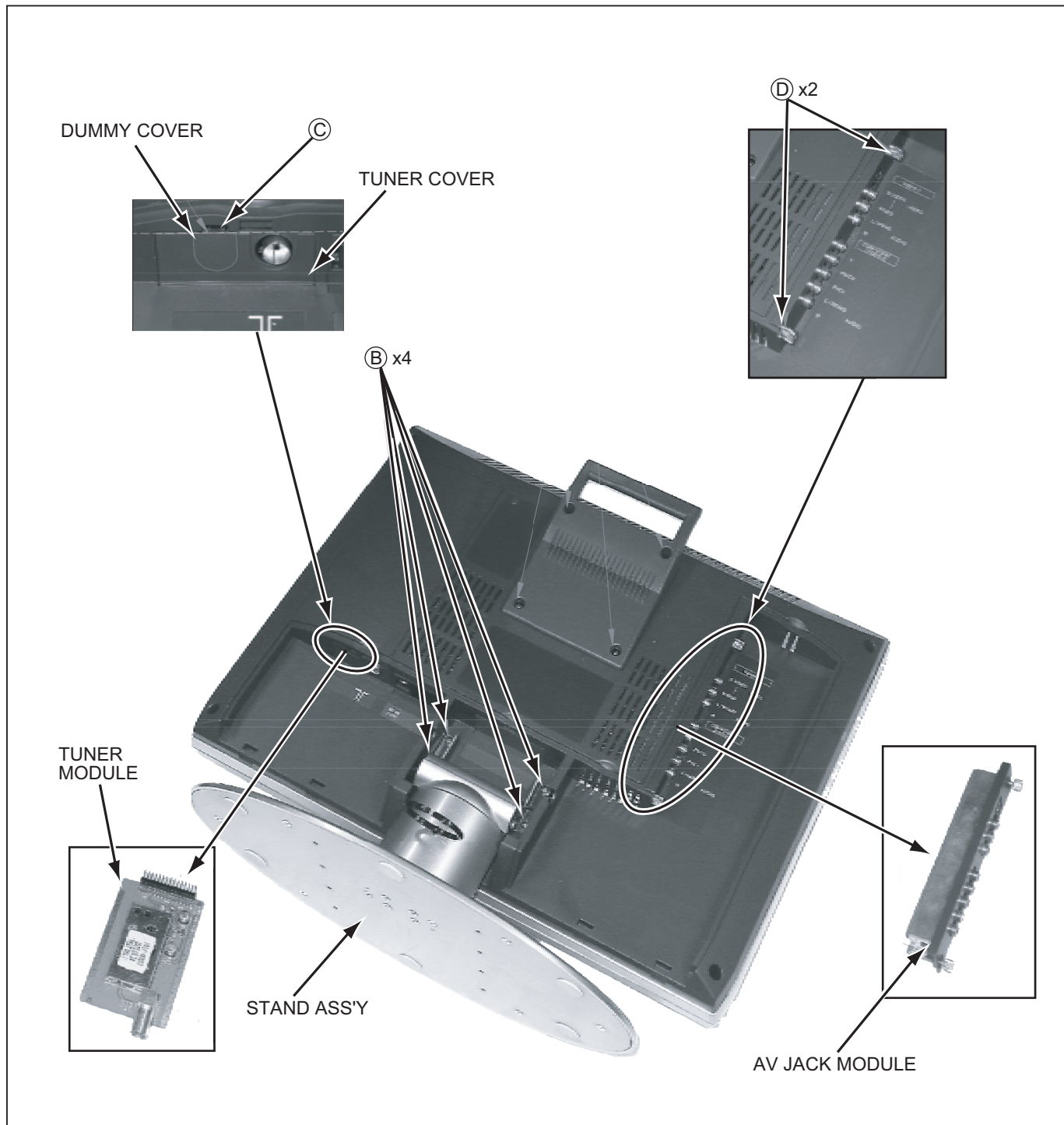


Fig.2

3.1.5 REMOVING THE REAR COVER (Fig.3)

- Remove the CABLE COVER (L/R) and NECK COVER.
- Remove the STAND ASS'Y.
- Remove the TUNER MODULE.
- Remove the AV JACK MODULE.

(1) Remove the 4 screws [E] and remove the REAR COVER.

CAUTION:

- For the REAR COVER is attached tightly, it is easy to open from the corner of the REAR COVER.

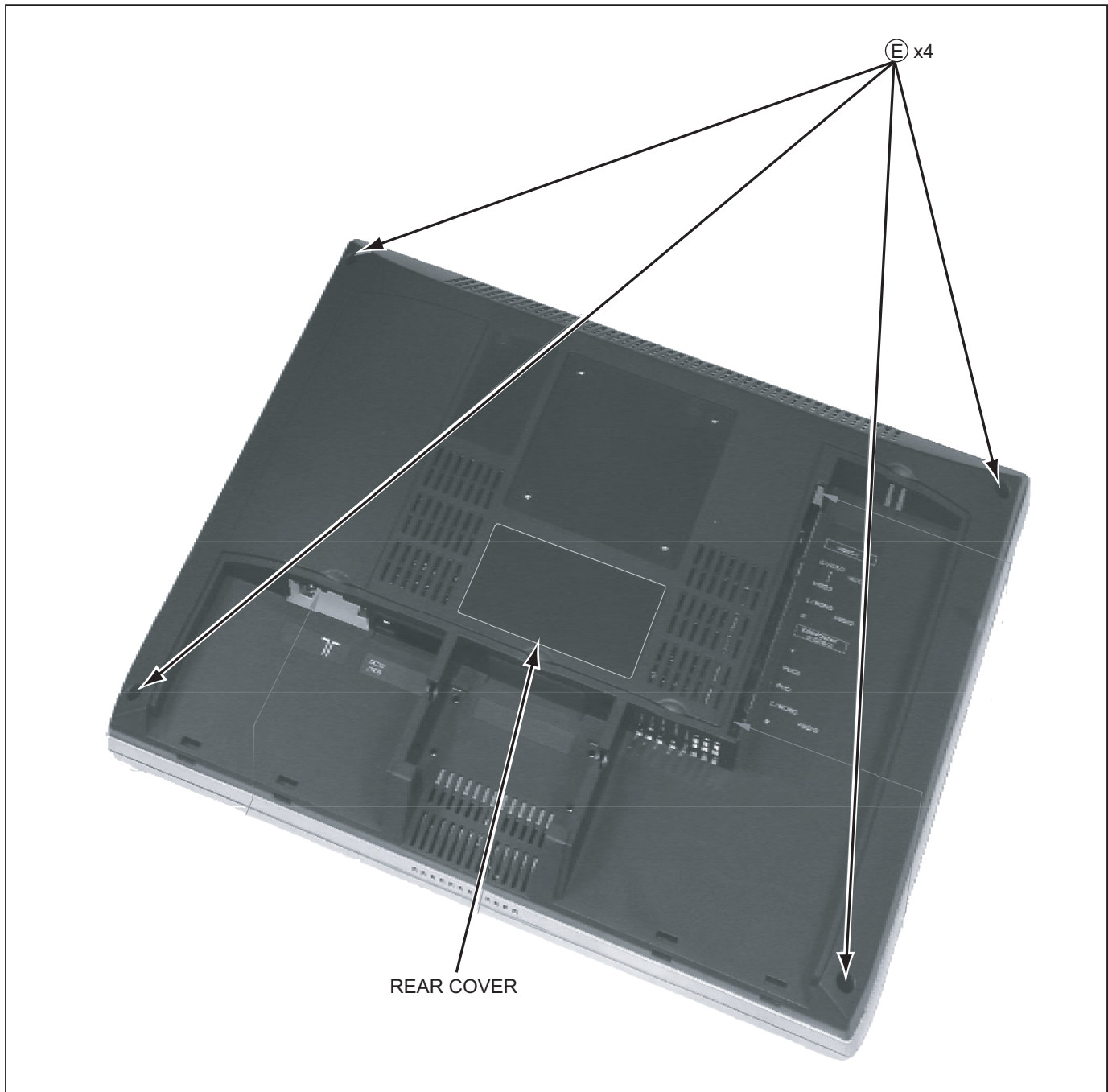


Fig.3

3.1.6 REMOVING THE MAIN PWB SHIELD (Fig.4, 5)

- Remove the REAR COVER.
 - (1) Remove the 1 screw **[F]** and remove the D-SUB COVER. (Fig.4)
 - (2) Remove the 1 screw **[G]** and remove the AUDIO COVER. (Fig.4)
 - (3) Remove the 2 screws **[H]** and remove the MODULE BRACKETS. (Fig.4)
 - (4) Remove the 4 screws **[I]**. (Fig.5)
 - (5) Remove the MAIN PWB SHIELD by sliding to downside. (Fig.5)

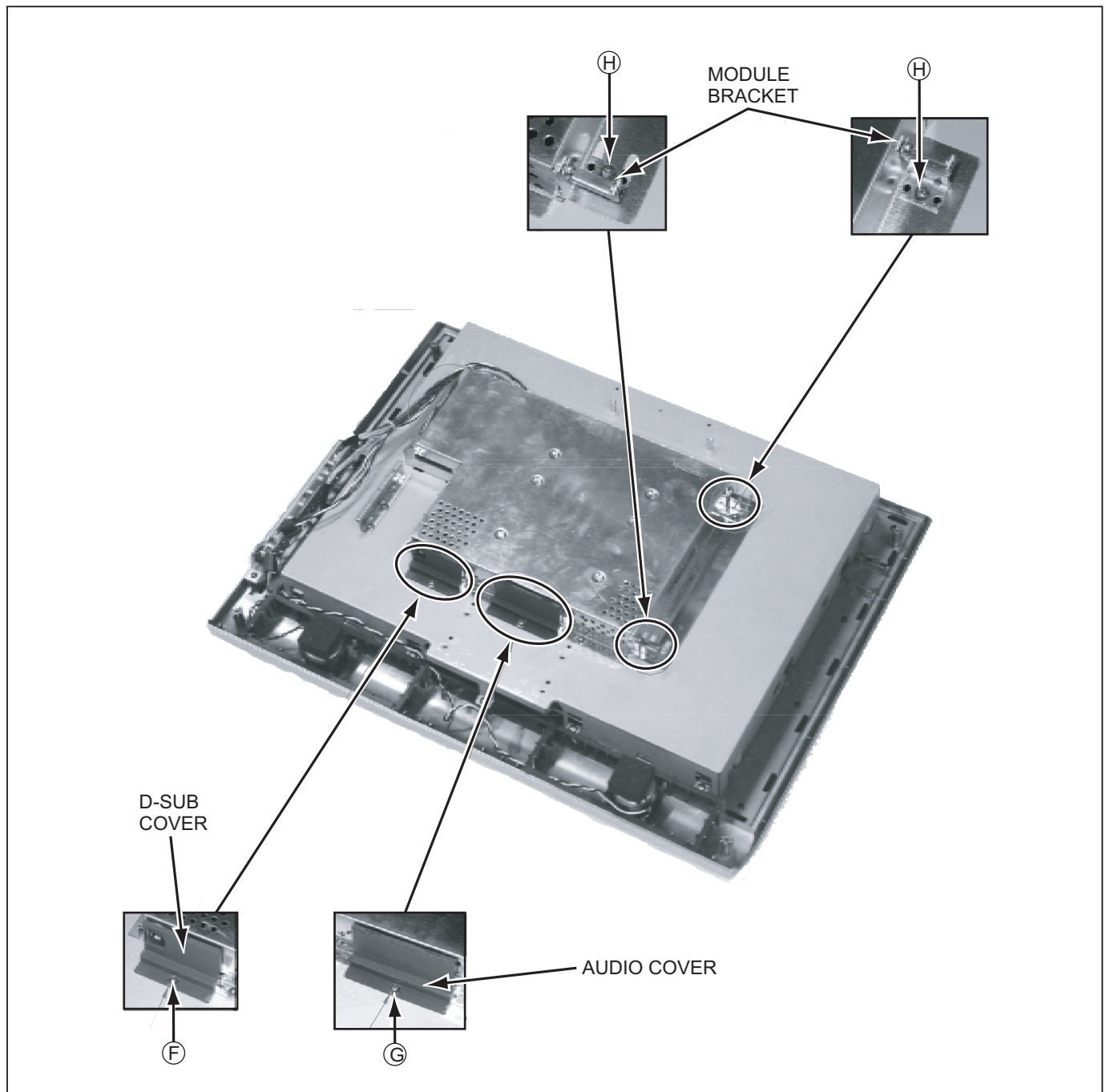


Fig.4

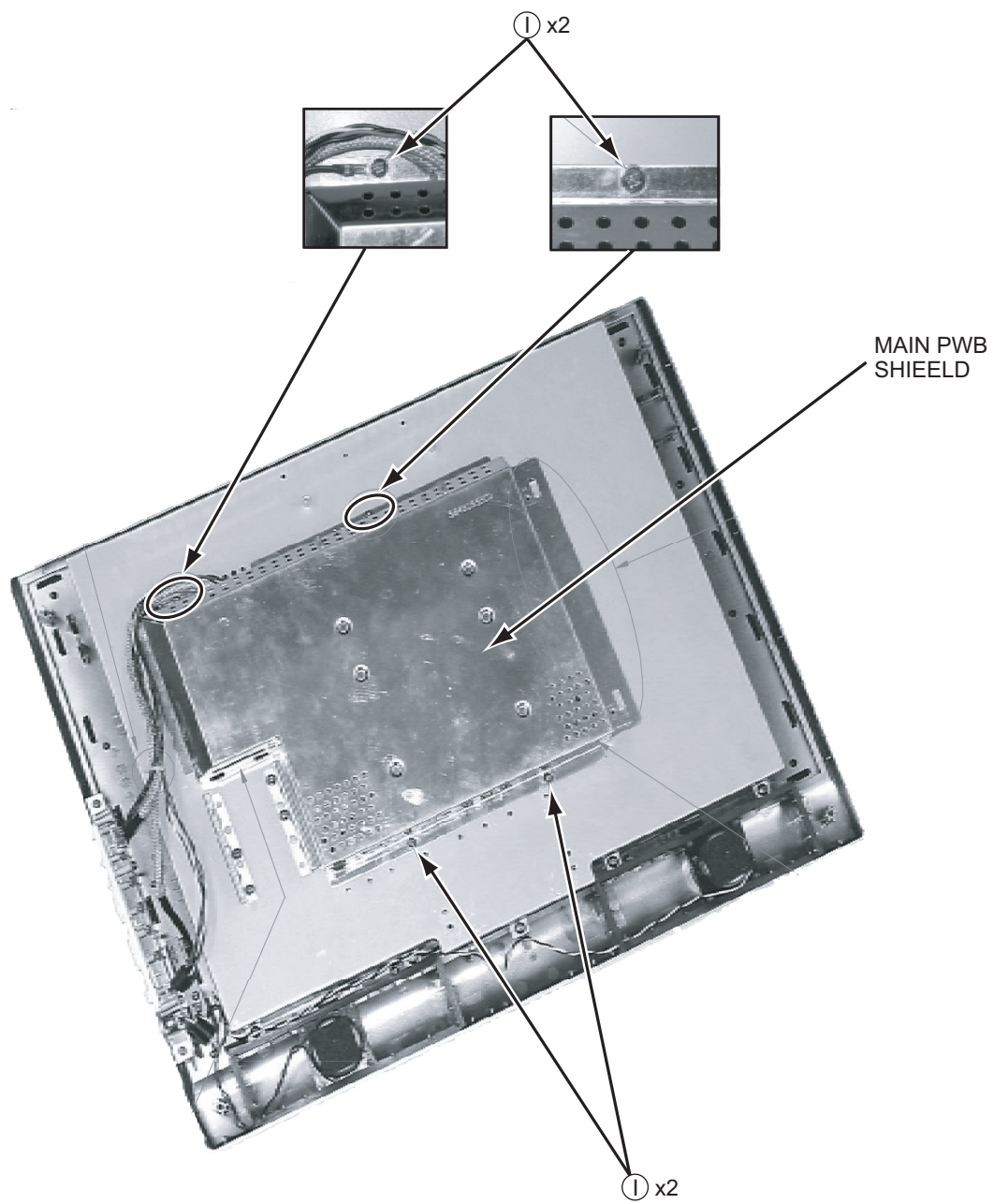


Fig.5

3.1.7 REMOVING THE MAIN PWB (Fig.6)

- Remove the REAR COVER.
- Remove the MAIN PWB SHIELD.
 - (1) Remove the 1 screw [J].
 - (2) Disconnect the connectors [P004] / [P006] / [P009] / [P017] from the MAIN PWB.
 - (3) Disconnect the connector [P613] from the FRONT CONTROL PWB.
 - (4) Remove the 6 screws [K] and remove the MAIN PWB.

NOTE:

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

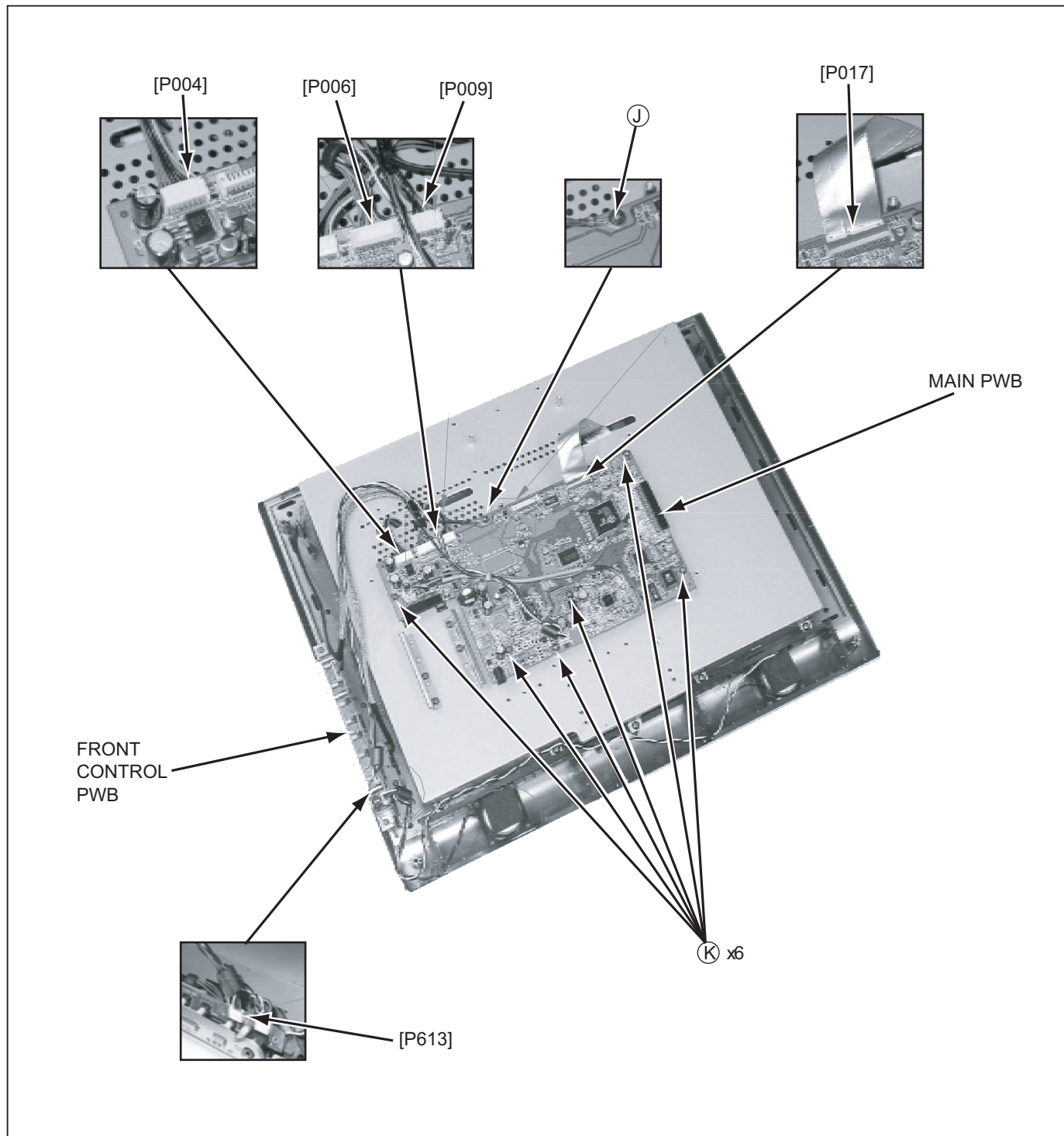


Fig.6

3.1.8 REMOVING THE LCD PANEL UNIT (Fig.7, 8)

- Remove the REAR COVER.
- Remove the MAIN PWB SHIELD.
- Remove the MAIN PWB.

- (1) Remove the 5 screws **[L]**. (Fig.7)
- (2) Remove the 2 claws **[M]**, 4 claws **[N]** and 2 claws **[O]** and remove the LCD PANEL UNIT and LCD BRACKET. (Fig.7)
- (3) Remove the 4 screws **[P]** and remove LCD BRACKET. (Fig.8)

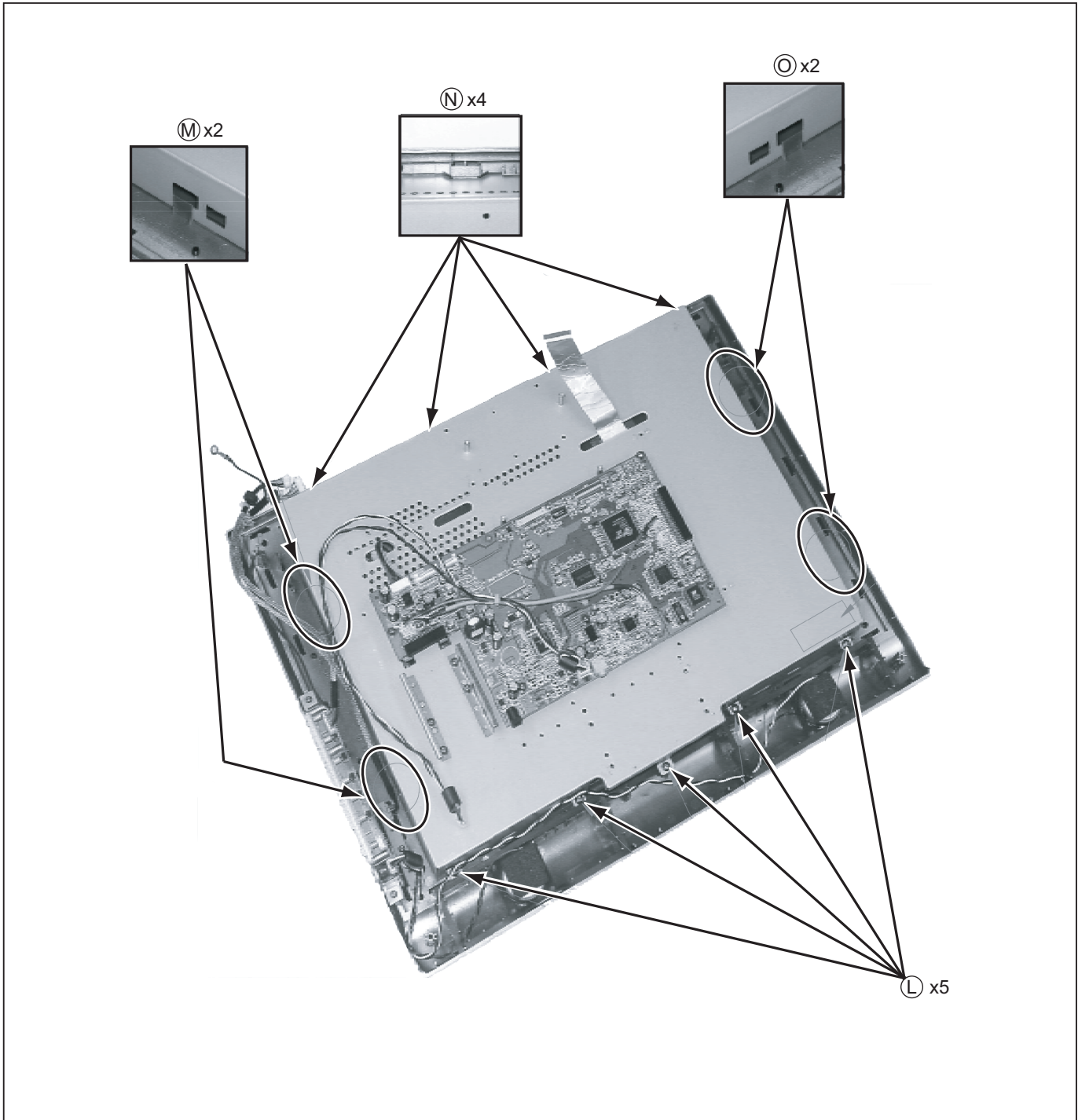


Fig.7

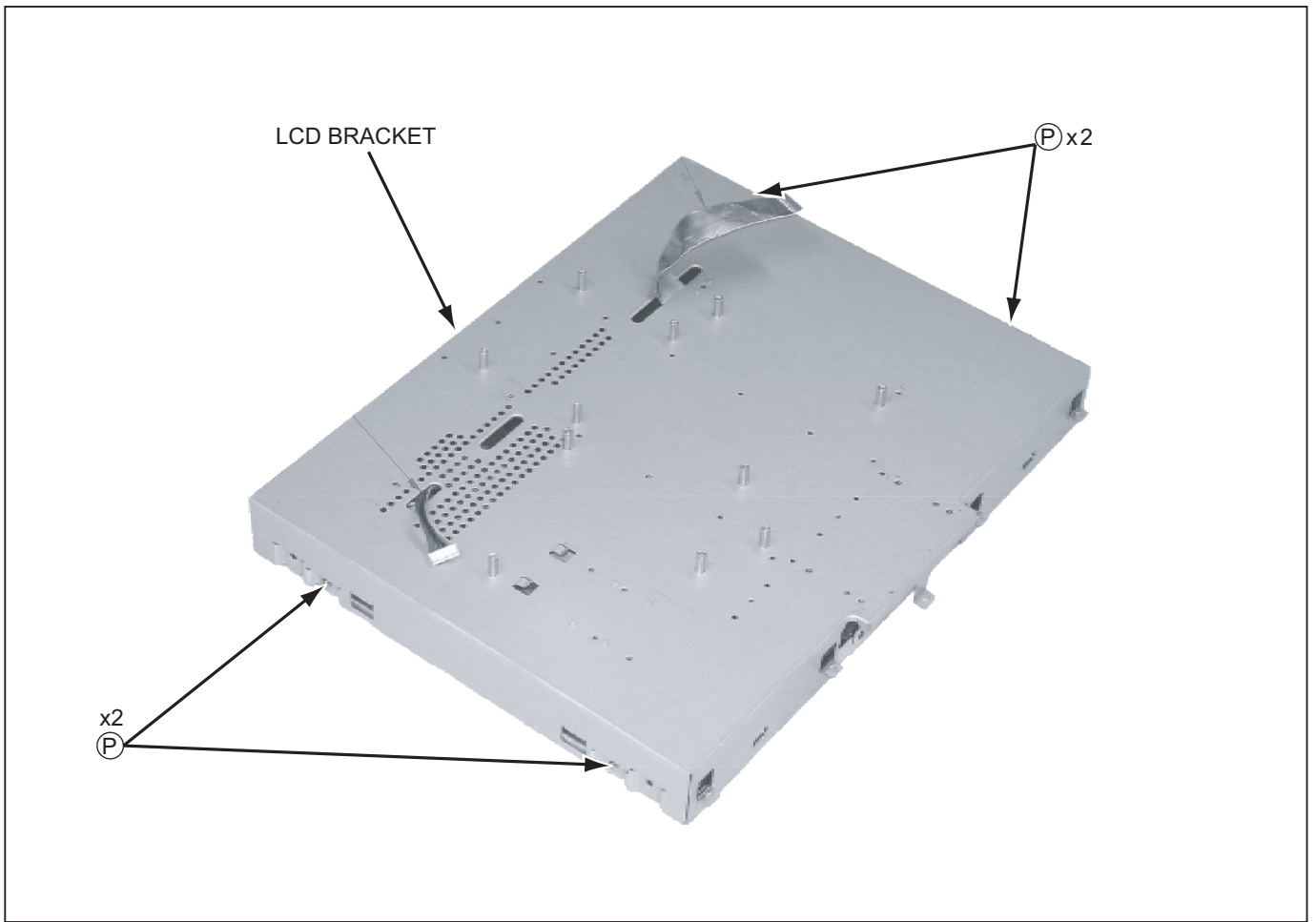


Fig.8

3.1.9 REMOVING THE INVERTER PWB (Fig.9)

- Remove the REAR COVER.
- Remove the MAIN PWB SHIELD.
- Remove the MAIN PWB.
- Remove the LCD BRACKET.

- (1) Remove the 2 screws [Q].
- (2) Disconnect the connectors from the INVERTER PWB and remove the INVERTER PWB.

NOTE:

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

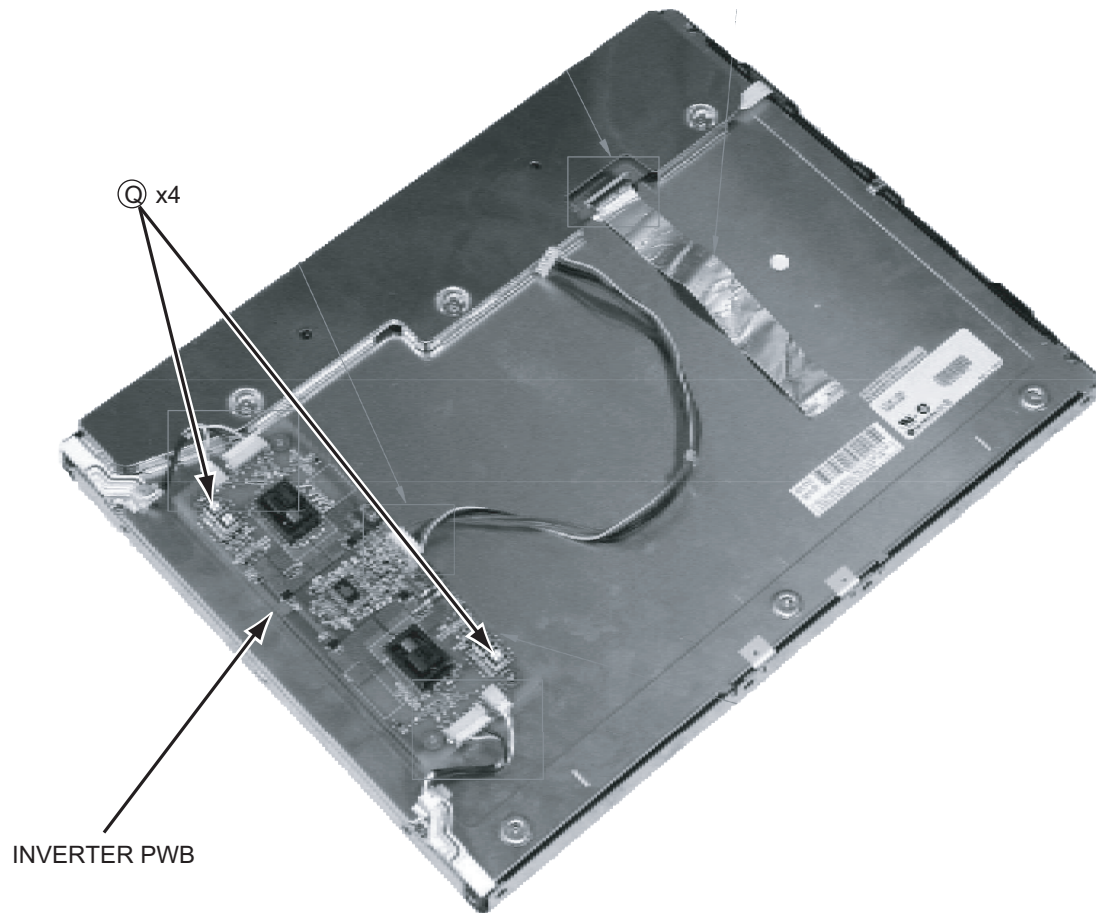


Fig.9

3.1.10 REMOVING THE SPEAKERS (Fig.10)

- Remove the REAR COVER.
 - (1) Disconnect the connector [P612] from the FRONT CONTROL PWB.
 - (2) Strip off the sponges and remove the SPEAKERS.

NOTE:

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

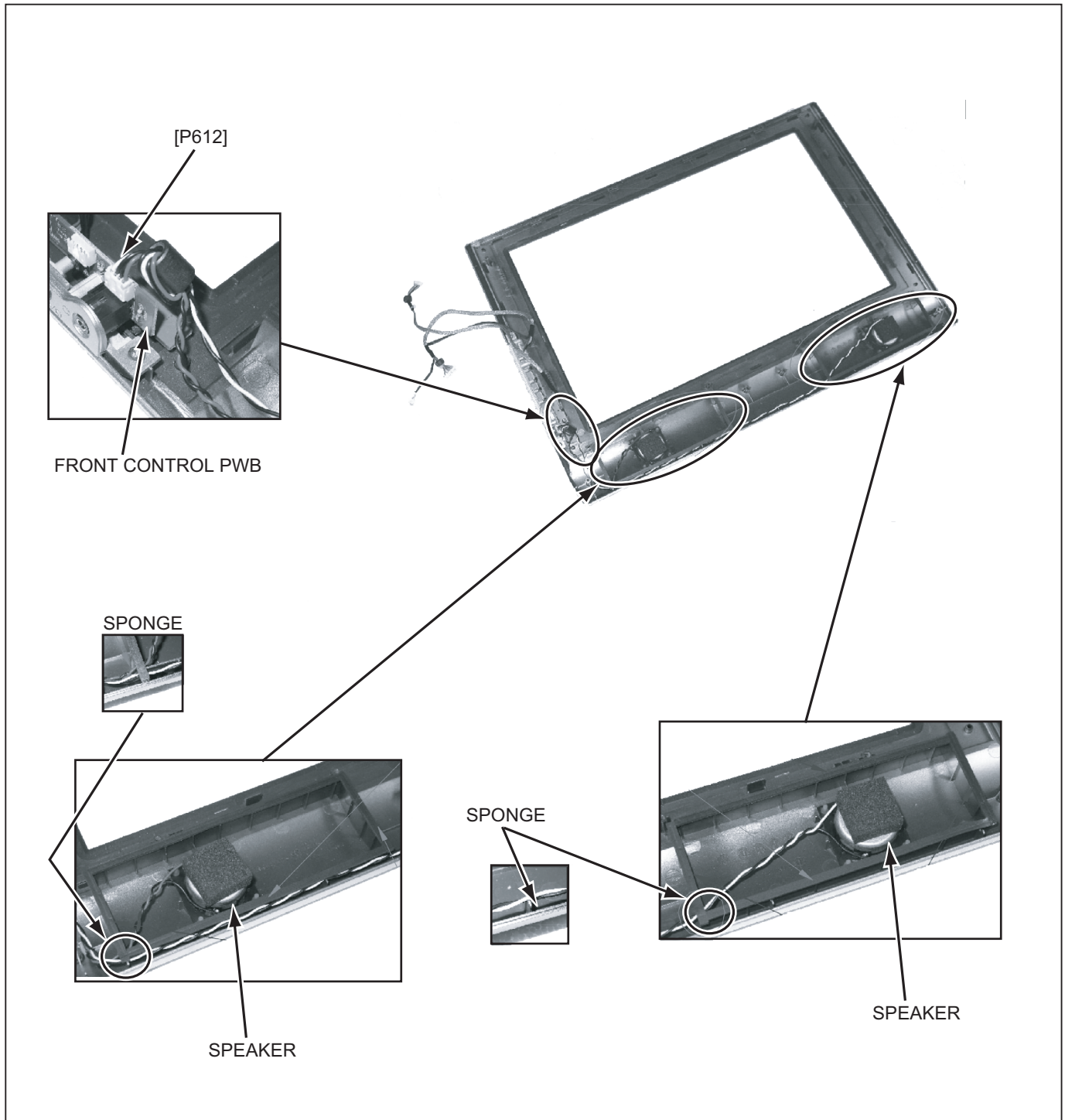


Fig.10

3.1.11 REMOVING THE FRONT CONTROL PWB (Fig.11)

- Remove the REAR COVER.
 - (1) Disconnect the connector [P611] from the FRONT CONTROL PWB.
 - (2) Remove the 2 screws [R].
 - (3) Remove the 3 screws [S] and remove the FRONT CONTROL PWB.

NOTE:

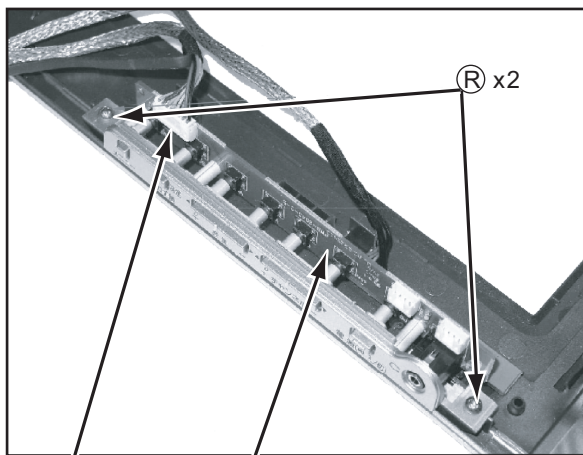
- It is advisable to take note of the connecting location (connector number) of the removed connectors.

3.1.12 REMOVING THE IR SENSOR PWB (Fig.11)

- Remove the REAR COVER.
 - (1) Remove the 1 screw [T].
 - (2) Disconnect the connector [P005] from the IR SENSOR PWB.

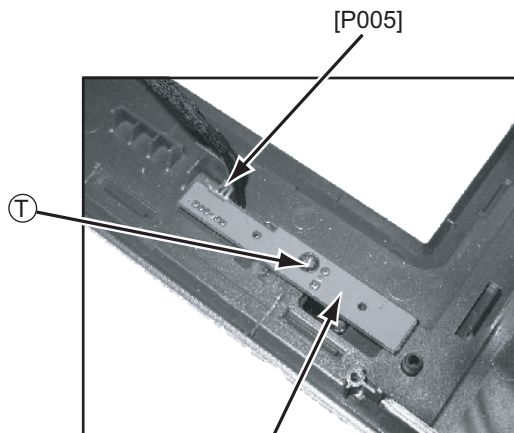
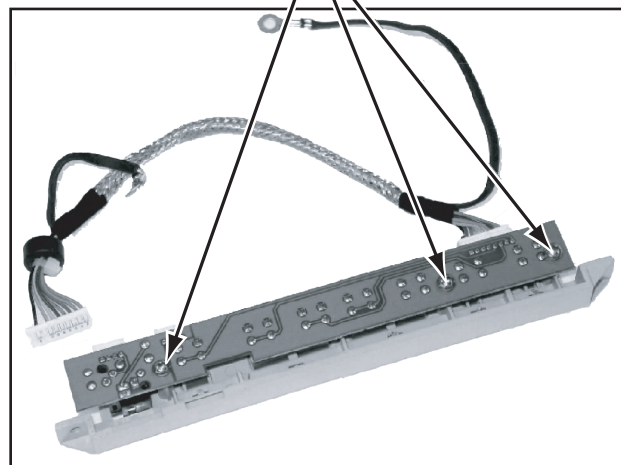
NOTE:

- It is advisable to take note of the connecting location (connector number) of the removed connectors.



[P611]

FRONT CONTROL PWB



IR SENSOR PWB

Fig.11

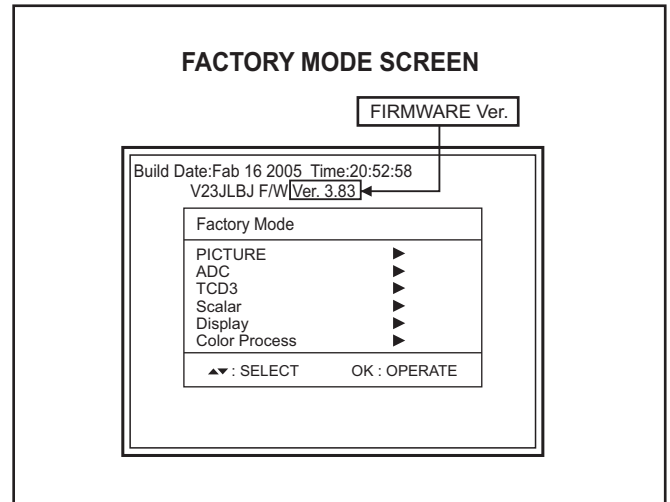
3.2 FIRMWARE VERSION CHECK

3.2.1 PROCEDURE FOR FIRMWARE VERSION CHECK

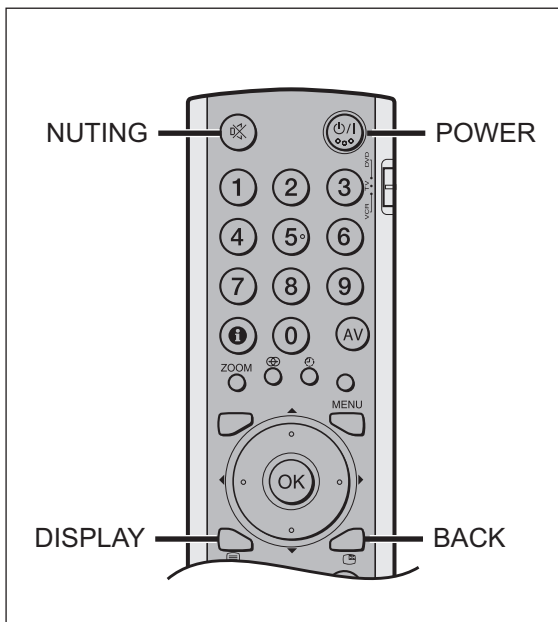
- (1) Press the [MUTING] key and the [DISPLAY] key simultaneously, and the FACTORY MODE screen Fig.1 will be displayed.
- (2) The FIRMWARE VERSION is displayed in the upperleft on the FACTORY MODE screen.
- (3) Press the [POWER] key or the [BACK] key to exit the FACTORY MODE.

CAUTION:

- Do not change setting values of FACTORY MODE screen.



3.2.2 SERVICE CONTROL KEY LAYOUT ON THE REMOTE CONTROL UNIT



3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

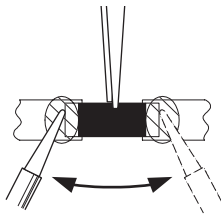
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

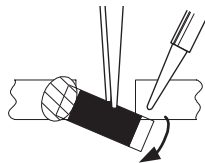
1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

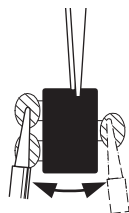


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



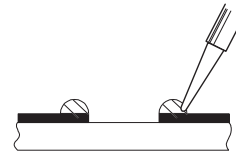
NOTE :

After removing the part, remove remaining solder from the pattern.

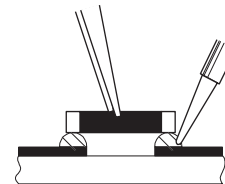
2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

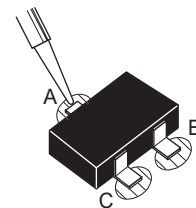


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

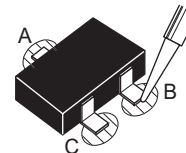


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.

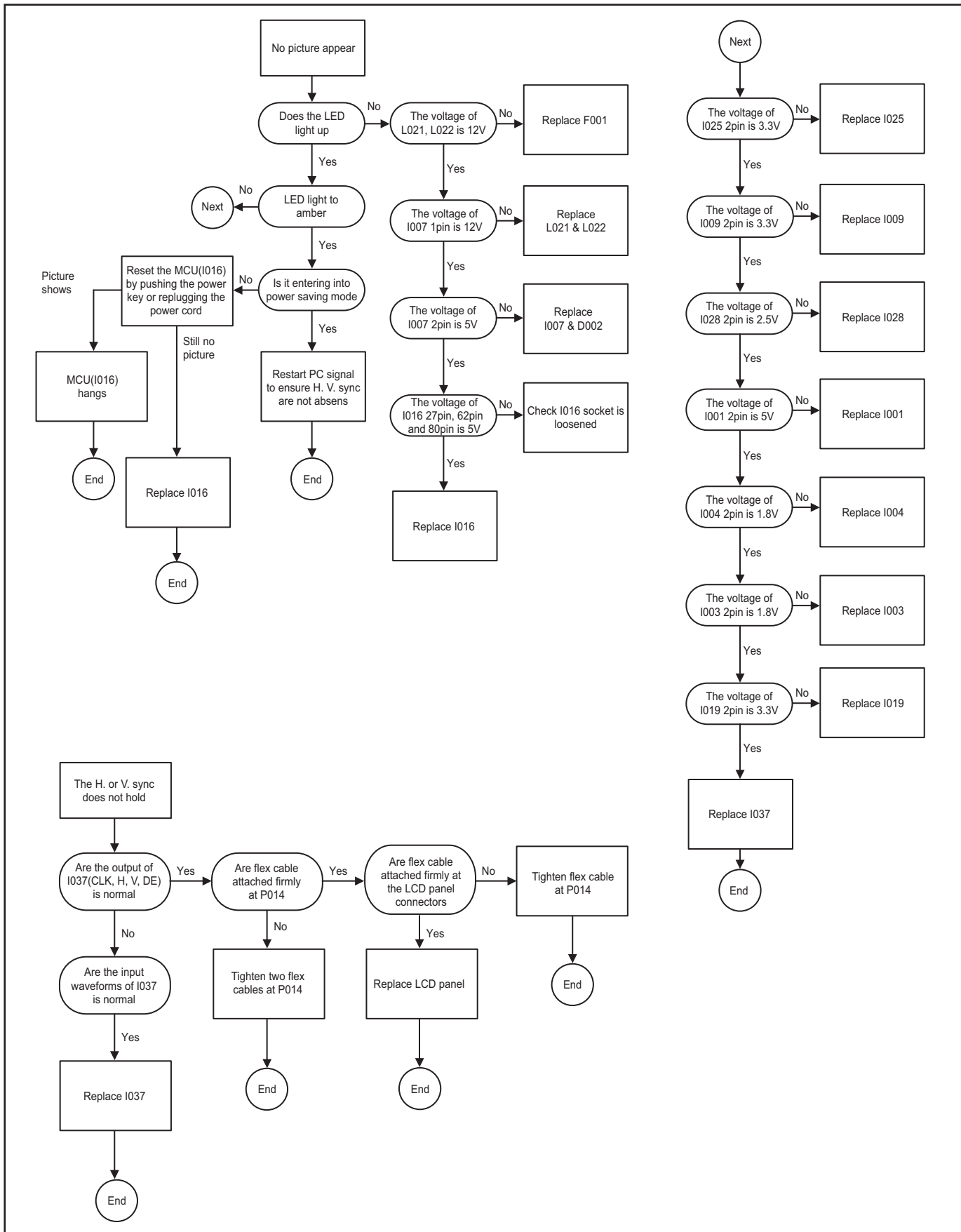


SECTION 4

ADJUSTMENT

This service manual does not describe ADJUSTMENT.

SECTION 5 TROUBLESHOOTING





Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY DISPLAY CATEGORY 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA350)



Printed in Japan
VPT

PARTS LIST

CAUTION

- The parts identified by the Δ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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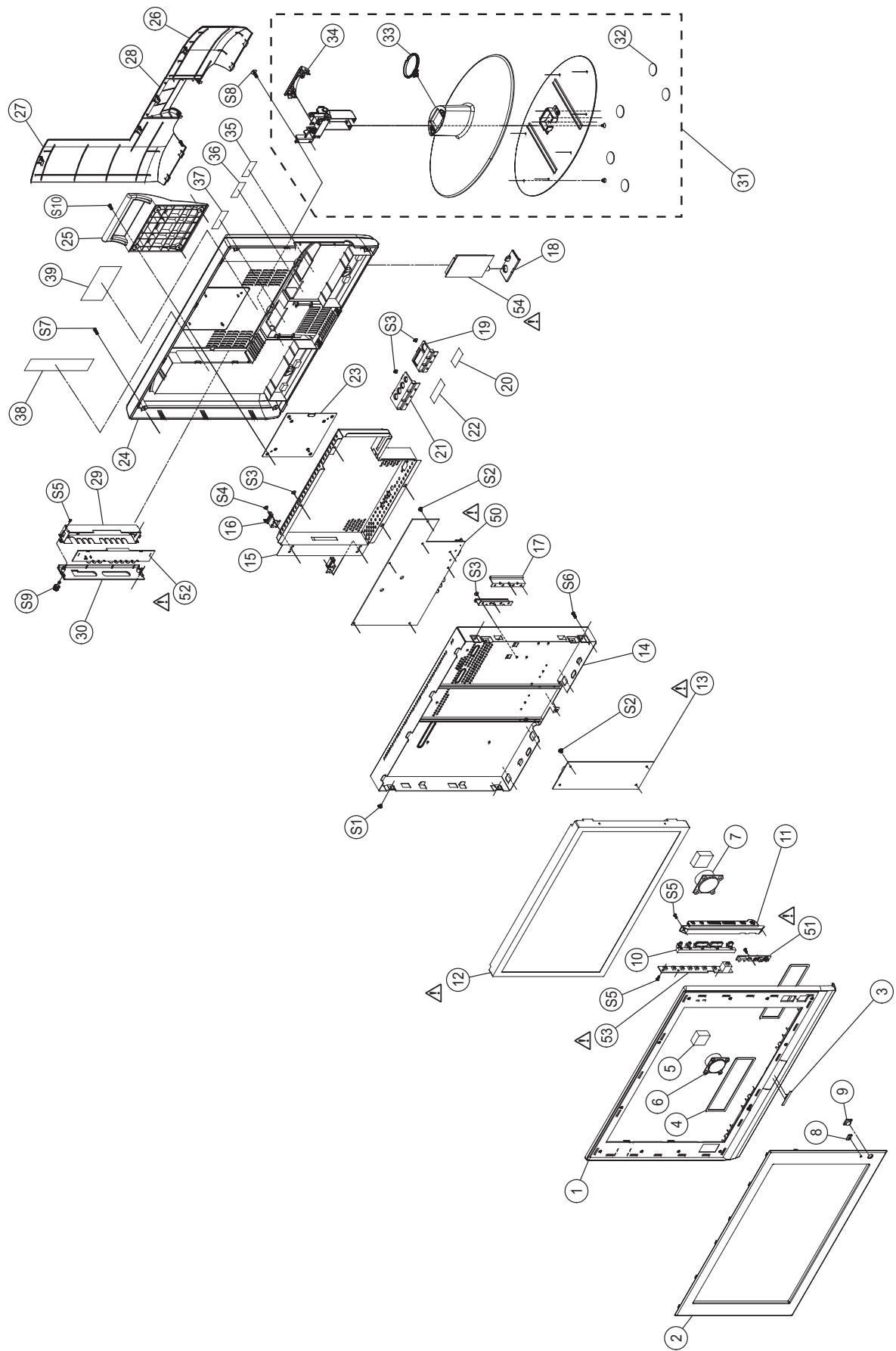
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	LT-20A5	LT-20A5/S
MAIN P.W.B	DA-5098801027 (PWB-0915-PART A-01)	←
IR SENSOR P.W.B	DA-5098801028 (PWB-0915-PART B-01)	←
AV JACK P.W.B	DA-5098801029 (PWB-0916-PART A-01)	←
FRONT CONTROL P.W.B	DA-5098801032 (PWB-0916-PART B-01)	←
TUNER P.W.B	DA-5098801030 (PWB-0916-PART C-01)	←
INVERTER P.W.B	DA-E053910013	←
REMOTE CONTROL UNIT	DA-E052731049	←

EXPLODED VIEW PARTS LIST

	△ Ref.No.	Part No.	Part Name	Description	Local
	1	DA-E642204400	FRONT COVER		
	2	DA-E642204302	FRONT COVER MASK		
	3	DA-E642440500	JVC MARK		
	4	DA-5642026411	SP SPONGE	(x2)	
	5	DA-E642025603	HIGH DENSITY SPONGE	(x2)	
	6	DA-E642026500	SPEAKER RUBBER	(x8)	
	7	DA-E055125200	SPEAKER	SP01, SP02(x2)	
	8	DA-E640331800	LED LENS		
	9	DA-E640331900	IR LENS		
	10	DA-E642850600	KEY		
	11	DA-E642319500	KEY COVER		
△	12	DA-E051253679	LCD PANEL UNIT		
△	13	DA-E053910013	INVERTER PWB		
	14	DA-E648745900	LCD BRACKET		
	15	DA-E646255501	MAIN PWB SHIELD		
	16	DA-E648742300	MODULE BRACKET	(x2)	
	17	DA-E648742200	TUNER BRACKET	(x2)	
	18	DA-E642318710	TUNER COVER		
	19	DA-E642318810	D-SUB COVER		
	20	DA-E642435300	D-SUB DUMMY COVER		
	21	DA-E642318910	AUDIO COVER		
	22	DA-E642438600	AUDIO DUMMY COVER		
	23	DA-E648731701	VISA BRACKET		
	24	DA-E642204500	REAR COVER		
	25	DA-E642901116	HANDLE		
	26	DA-E642323100	CABLE COVER (L)		
	27	DA-E642323000	CABLE COVER (R)		
	28	DA-E641415112	NECK COVER		
	29	DA-E642655800	AV JACK PWB SHIELD		
	30	DA-E642679610	AV JACK PWB COVER		
	31	DA-5095854608	STAND ASS'Y	Inc. No.32 - No.34	
	32	DA-E642025401	RUBBER FOOT	(x5)	
	33	DA-E642679300	CABLE HOLDER		
	34	DA-E641414901	HINGE COVER		
	35	DA-E642425400	TUNER LABEL		
	36	DA-E642435000	DC IN LABEL		
	37	DA-E642438700	AUDIO LABEL		
	38	DA-E642429400	I/O LABEL		
	39	DA-E030571128	RATING LABEL		LT-20A5
	39	DA-E030571129	RATING LABEL		LT-20A5/S
	S1	DA-G190562305	SCREW	M3 x 5mm(x4)	
	S2	DA-G000311032	SCREW	M3 x 6mm(x9)	
	S3	DA-G136160652	SCREW	M3 x 6mm(x10)	
	S4	DA-G136160652	SCREW	M3 x 6mm(x2)	
	S5	DA-G134161182	SCREW	M3 x 8mm(x6)	
	S6	DA-G134251482	SCREW	M4 x 10mm(x5)	
	S7	DA-G134251682	SCREW	M4 x 12mm(x4)	
	S8	DA-G190540084	SCREW	M4 x 16mm(x4)	
	S9	DA-E640228300	SCREW	(x2)	
	S10	DA-G134251456	SCREW	M4 x 10mm(x4)	
△	50	DA-5098801027	MAIN PWB		
△	51	DA-5098801028	IR SENSOR PWB		
△	52	DA-5098801029	AV JACK PWB		
△	53	DA-5098801032	FRONT CONTROL PWB		
△	54	DA-5098801030	TUNER PWB		

EXPLODED VIEW



PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y

DA-5098801027 (PWB-0915-PART A-01)

△Ref No.	Part No.	Part Name	Description	Local
I001	DA-F640031025	IC	AP1084KA-ADJ	
I002	DA-F626110018	IC	SI4435BDY	
I003	DA-F640031025	IC	AP1084KA-ADJ	
I004	DA-F640031014	IC	LT1117S18	
I005	DA-F640000355	IC	LM3485	
I006	DA-F626110018	IC	SI4435BDY	
I009	DA-F640010150	IC	LT1117S33	
I010	DA-F626110018	IC	SI4435BDY	
I013	DA-F647026154	IC	SST39SF040-70-4C-NHM	
I015	DA-F647310702	IC	W24257AJ-8N	
I016	DA-F647073054	IC	M30620SPGP	
I021	DA-F626110018	IC	SI4435BDY	
I023	DA-F647026450	IC	BR24L64F-W	
I024	DA-F640000958	IC	HT7044A	
I025	DA-F640010150	IC	LT1117S33	
I027	DA-F644051155	IC	TPA1517DWP	
I028	DA-F640010159	IC	LT1117S25	
I031	DA-F644001350	IC	THC63LVDF84A-G	
I032	DA-F647014558	IC	K4D263238F	
I033	DA-F646036751	IC	MSP3450G	
I034	DA-F640000655	IC	PJ78M09	
I035	DA-F626090068	IC	NDC7002N	
I036	DA-F626090068	IC	NDC7002N	
I037	DA-F647003352	IC	SVP-EX52-L	
Q001	DA-F622010011	TRANSISTOR	MMBT3904	
Q002	DA-F622010011	TRANSISTOR	MMBT3904	
Q003	DA-F622010011	TRANSISTOR	MMBT3904	
Q004	DA-F622010011	TRANSISTOR	MMBT3904	
Q005	DA-F622010011	TRANSISTOR	MMBT3904	
Q006	DA-F623010011	TRANSISTOR	MMBT3906	
Q007	DA-F623010011	TRANSISTOR	MMBT3906	
Q009	DA-F622010011	TRANSISTOR	MMBT3904	
Q010	DA-F623010011	TRANSISTOR	MMBT3906	
Q011	DA-F623010011	TRANSISTOR	MMBT3906	
Q013	DA-F622010011	TRANSISTOR	MMBT3904	
Q015	DA-F623010011	TRANSISTOR	MMBT3906	
Q042	DA-F622010011	TRANSISTOR	MMBT3904	
D005	DA-F611020036	DIODE	B340	
D018	DA-F613020019	DIODE	LL4148	
D022	DA-F613020019	DIODE	LL4148	
D024	DA-F613020019	DIODE	LL4148	
D025	DA-F613020019	DIODE	LL4148	
D026	DA-F613020019	DIODE	LL4148	
D028	DA-F613020019	DIODE	LL4148	
ZD15	DA-F615010091	Z DIODE	BZT52C3V6	
C001	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C003	DA-E216029302	CAPACITOR	330uF 35V	
C004	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C005	DA-E218027093	CAPACITOR	100uF 16V M	
C007	DA-E218027093	CAPACITOR	100uF 16V M	
C008	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C009	DA-E218027093	CAPACITOR	100uF 16V M	
C010	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C011	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C012	DA-E218027093	CAPACITOR	100uF 16V M	
C013	DA-E240610191	CAPACITOR	100pF 50V J	
C014	DA-E240610191	CAPACITOR	100pF 50V J	
C015	DA-E240610191	CAPACITOR	100pF 50V J	
C016	DA-E240610191	CAPACITOR	100pF 50V J	
C017	DA-E240610191	CAPACITOR	100pF 50V J	
C020	DA-E240610191	CAPACITOR	100pF 50V J	
C022	DA-E240610191	CAPACITOR	100pF 50V J	
C024	DA-E218027093	CAPACITOR	100uF 16V M	
C025	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C027	DA-E218027093	CAPACITOR	100uF 16V M	
C028	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C029	DA-E218027093	CAPACITOR	100uF 16V M	
C030	DA-E240610191	CAPACITOR	100pF 50V J	
C031	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C032	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C034	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C035	DA-E216029302	CAPACITOR	330uF 35V	
C037	DA-E218027093	CAPACITOR	100uF 16V M	
C039	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C043	DA-E250810591	CAPACITOR	1uF 25V Z	
C044	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C045	DA-E218027093	CAPACITOR	100uF 16V M	

△Ref No.	Part No.	Part Name	Description	Local
C046	DA-E216028903	CAPACITOR	470uF 25V M	
C048	DA-E216028903	CAPACITOR	470uF 25V M	
C054	DA-E218007993	CAPACITOR	100uF 16V M	
C106	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C110	DA-E218007993	CAPACITOR	100uF 16V M	
C111	DA-E240647091	CAPACITOR	47pF 50V J	
C112	DA-E218008893	CAPACITOR	22uF 16V M	
C113	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C115	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C116	DA-E216028903	CAPACITOR	470uF 25V M	
C119	DA-E240647091	CAPACITOR	47pF 50V J	
C120	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C121	DA-E230019191	CAPACITOR	0.15uF DC 16V Z	
C122	DA-E218007993	CAPACITOR	100uF 16V M	
C124	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C126	DA-E216028903	CAPACITOR	470uF 25V M	
C127	DA-E230014191	CAPACITOR	2.2uF DC 16V M	
C132	DA-E218007893	CAPACITOR	10uF 16V M	
C133	DA-E218008893	CAPACITOR	22uF 16V M	
C134	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C136	DA-E218007893	CAPACITOR	10uF 16V M	
C137	DA-E218007893	CAPACITOR	10uF 16V M	
C138	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C140	DA-E240615091	CAPACITOR	15pF 50V J	
C141	DA-E240615091	CAPACITOR	15pF 50V J	
C142	DA-E230610291	CAPACITOR	1000pF 50V K	
C143	DA-E218007893	CAPACITOR	10uF 16V M	
C144	DA-E218007893	CAPACITOR	10uF 16V M	
C145	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C146	DA-E218007993	CAPACITOR	100uF 16V M	
C147	DA-E230019191	CAPACITOR	0.15uF DC 16V Z	
C149	DA-E216028903	CAPACITOR	470uF 25V M	
C150	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C151	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C152	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C153	DA-E230610391	CAPACITOR	10uF 50V K	
C161	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C162	DA-E218007993	CAPACITOR	100uF 16V M	
C163	DA-E218007993	CAPACITOR	100uF 16V M	
C168	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C169	DA-E218007993	CAPACITOR	100uF 16V M	
C169	DA-E218006393	CAPACITOR	220uF 16V M	
C171	DA-E218007893	CAPACITOR	10uF 16V M	
C172	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C175	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C180	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C182	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C183	DA-E240610191	CAPACITOR	100pF 50V J	
C184	DA-E218007893	CAPACITOR	10uF 16V M	
C187	DA-E216027903	CAPACITOR	100uF 25V M	
C188	DA-E230610291	CAPACITOR	1000pF 50V K	
C189	DA-E230610391	CAPACITOR	10uF 50V K	
C190	DA-E240647191	CAPACITOR	470pF 50V J	
C193	DA-E250810591	CAPACITOR	1uF 25V Z	
C194	DA-E218007893	CAPACITOR	10uF 16V M	
C195	DA-E230610291	CAPACITOR	1000pF 50V K	
C196	DA-E240633991	CAPACITOR	3.3pF DC 50V	
C197	DA-E230610291	CAPACITOR	1000pF 50V K	
C198	DA-E250810591	CAPACITOR	1uF 25V Z	
C200	DA-E218008893	CAPACITOR	22uF 16V M	
C201	DA-E240633991	CAPACITOR	3.3pF DC 50V	
C202	DA-E218007893	CAPACITOR	10uF 16V M	
C203	DA-E240656091	CAPACITOR	56pF DC 50V J	
C204	DA-E218007893	CAPACITOR	10uF 16V M	
C205	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C206	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C207	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C209	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C210	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C211	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C212	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C213	DA-E240656091	CAPACITOR	56pF DC 50V J	
C214	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C215	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C216	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C217	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C218	DA-E230610291	CAPACITOR	1000pF 50V K	
C219	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C220	DA-E230610291	CAPACITOR	1000pF 50V K	
C221	DA-E218007893	CAPACITOR	10uF 16V M	
C222	DA-E250810591	CAPACITOR	1uF 25V Z	
C223	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C224	DA-E230003391	CAPACITOR	0.1uF 25V Z	
C225	DA-E230003391	CAPACITOR	0.1uF 25V Z	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C226	DA-E218007893	CAPACITOR	10uF 16V M	C382	DA-E240622091	CAPACITOR	22pF DC 50V J
C227	DA-E230003391	CAPACITOR	0.1uF 25V Z	C383	DA-E240622091	CAPACITOR	22pF DC 50V J
C231	DA-E230003391	CAPACITOR	0.1uF 25V Z	C390	DA-E240622091	CAPACITOR	22pF DC 50V J
C233	DA-E250810591	CAPACITOR	1uF 25V Z	C396	DA-E218008893	CAPACITOR	22uF 16V M
C234	DA-E134600009	CAPACITOR	0Ω 1/10W J	C397	DA-E230003391	CAPACITOR	0.1uF 25V Z
C235	DA-E134600009	CAPACITOR	0Ω 1/10W J	C402	DA-E240622091	CAPACITOR	22pF DC 50V J
C236	DA-E134600009	CAPACITOR	0Ω 1/10W J	C403	DA-E240622091	CAPACITOR	22pF DC 50V J
C237	DA-E134600009	CAPACITOR	0Ω 1/10W J	C404	DA-E240622091	CAPACITOR	22pF DC 50V J
C238	DA-E230003391	CAPACITOR	0.1uF 25V Z	C405	DA-E240622091	CAPACITOR	22pF DC 50V J
C239	DA-E218027493	CAPACITOR	4.7uF 50V M	C406	DA-E240622091	CAPACITOR	22pF DC 50V J
C240	DA-E218006393	CAPACITOR	220uF 16V M	C407	DA-E240622091	CAPACITOR	22pF DC 50V J
C241	DA-E230003391	CAPACITOR	0.1uF 25V Z	C408	DA-E240622091	CAPACITOR	22pF DC 50V J
C242	DA-E218007893	CAPACITOR	10uF 16V M	C409	DA-E240622091	CAPACITOR	22pF DC 50V J
C243	DA-E218008893	CAPACITOR	22uF 16V M	C410	DA-E240622091	CAPACITOR	22pF DC 50V J
C244	DA-E230003391	CAPACITOR	0.1uF 25V Z	C411	DA-E240622091	CAPACITOR	22pF DC 50V J
C245	DA-E230003391	CAPACITOR	0.1uF 25V Z	C412	DA-E240622091	CAPACITOR	22pF DC 50V J
C246	DA-E134600009	CAPACITOR	0Ω 1/10W J	C413	DA-E240622091	CAPACITOR	22pF DC 50V J
C247	DA-E134600009	CAPACITOR	0Ω 1/10W J	C414	DA-E240622091	CAPACITOR	22pF DC 50V J
C248	DA-E134600009	CAPACITOR	0Ω 1/10W J	C415	DA-E240622091	CAPACITOR	22pF DC 50V J
C249	DA-E230003391	CAPACITOR	0.1uF 25V Z	C416	DA-E240622091	CAPACITOR	22pF DC 50V J
C250	DA-E230003391	CAPACITOR	0.1uF 25V Z	C417	DA-E240622091	CAPACITOR	22pF DC 50V J
C251	DA-E134600009	CAPACITOR	0Ω 1/10W J	C418	DA-E240622091	CAPACITOR	22pF DC 50V J
C252	DA-E230003391	CAPACITOR	0.1uF 25V Z	C419	DA-E240622091	CAPACITOR	22pF DC 50V J
C254	DA-E230003391	CAPACITOR	0.1uF 25V Z	C420	DA-E240622091	CAPACITOR	22pF DC 50V J
C255	DA-E230003391	CAPACITOR	0.1uF 25V Z	C421	DA-E240622091	CAPACITOR	22pF DC 50V J
C257	DA-E230003391	CAPACITOR	0.1uF 25V Z	C428	DA-E230003391	CAPACITOR	0.1uF 25V Z
C258	DA-E230003391	CAPACITOR	0.1uF 25V Z	C429	DA-E230003391	CAPACITOR	0.1uF 25V Z
C259	DA-E230003391	CAPACITOR	0.1uF 25V Z	C430	DA-E216028903	CAPACITOR	470uF 25V M
C262	DA-E230003391	CAPACITOR	0.1uF 25V Z	C434	DA-E230610291	CAPACITOR	1000pF 50V K
C263	DA-E216027903	CAPACITOR	100uF 25V M	C435	DA-E216029302	CAPACITOR	330uF 35V
C265	DA-E230003391	CAPACITOR	0.1uF 25V Z	C436	DA-E240622191	CAPACITOR	220pF 50V J
C266	DA-E240622091	CAPACITOR	22pF DC 50V J	C437	DA-E240622191	CAPACITOR	220pF 50V J
C267	DA-E240622091	CAPACITOR	22pF DC 50V J	C439	DA-E218027093	CAPACITOR	100uF 16V M
C269	DA-E230003391	CAPACITOR	0.1uF 25V Z	C441	DA-E218007993	CAPACITOR	100uF 16V M
C271	DA-E230003391	CAPACITOR	0.1uF 25V Z	C443	DA-E218007893	CAPACITOR	10uF 16V M
C274	DA-E230003391	CAPACITOR	0.1uF 25V Z	C444	DA-E230003391	CAPACITOR	0.1uF 25V Z
C276	DA-E240668091	CAPACITOR	68pF DC 50V J	C445	DA-E218007993	CAPACITOR	100uF 16V M
C277	DA-E230003391	CAPACITOR	0.1uF 25V Z	C446	DA-E230647291	CAPACITOR	4700pF 50V K
C278	DA-E230003391	CAPACITOR	0.1uF 25V Z	C447	DA-E230610391	CAPACITOR	10uF 50V K
C279	DA-E230003391	CAPACITOR	0.1uF 25V Z	C448	DA-E230610391	CAPACITOR	10uF 50V K
C284	DA-E230003391	CAPACITOR	0.1uF 25V Z	C449	DA-E230610391	CAPACITOR	10uF 50V K
C285	DA-E240668091	CAPACITOR	68pF DC 50V J	C450	DA-E230003391	CAPACITOR	0.1uF 25V Z
C286	DA-E240622091	CAPACITOR	22pF DC 50V J	C451	DA-E230610391	CAPACITOR	10uF 50V K
C288	DA-E218007993	CAPACITOR	100uF 16V M	C452	DA-E230003391	CAPACITOR	0.1uF 25V Z
C289	DA-E230003391	CAPACITOR	0.1uF 25V Z	C453	DA-E218007893	CAPACITOR	10uF 16V M
C294	DA-E230610391	CAPACITOR	10uF 50V K	C454	DA-E218007993	CAPACITOR	100uF 16V M
C296	DA-E240622091	CAPACITOR	22pF DC 50V J	C455	DA-E230610391	CAPACITOR	10uF 50V K
C297	DA-E230003391	CAPACITOR	0.1uF 25V Z	C456	DA-E230003391	CAPACITOR	0.1uF 25V Z
C299	DA-E230003391	CAPACITOR	0.1uF 25V Z	C457	DA-E230003391	CAPACITOR	0.1uF 25V Z
C301	DA-E230003391	CAPACITOR	0.1uF 25V Z	C458	DA-E230647291	CAPACITOR	4700pF 50V K
C303	DA-E230003391	CAPACITOR	0.1uF 25V Z	C459	DA-E230610391	CAPACITOR	10uF 50V K
C304	DA-E230003391	CAPACITOR	0.1uF 25V Z	C460	DA-E230610391	CAPACITOR	10uF 50V K
C305	DA-E230003391	CAPACITOR	0.1uF 25V Z	C461	DA-E230003391	CAPACITOR	0.1uF 25V Z
C307	DA-E230003391	CAPACITOR	0.1uF 25V Z				
C308	DA-E218008893	CAPACITOR	22uF 16V M	R001	DA-E134600009	RESISTOR	0Ω 1/10W J
C309	DA-E230003391	CAPACITOR	0.1uF 25V Z	R002	DA-E134600009	RESISTOR	0Ω 1/10W J
C311	DA-E230003391	CAPACITOR	0.1uF 25V Z	R003	DA-E134600009	RESISTOR	0Ω 1/10W J
C312	DA-E230003391	CAPACITOR	0.1uF 25V Z	R004	DA-E134600009	RESISTOR	0Ω 1/10W J
C313	DA-E230003391	CAPACITOR	0.1uF 25V Z	R005	DA-E134639109	RESISTOR	390Ω 1/10W J
C314	DA-E230003391	CAPACITOR	0.1uF 25V Z	R006	DA-E134624109	RESISTOR	240Ω 1/10W J
C318	DA-E230003391	CAPACITOR	0.1uF 25V Z	R007	DA-E134610309	RESISTOR	10kΩ 1/10W J
C319	DA-E230003391	CAPACITOR	0.1uF 25V Z	R008	DA-E134610409	RESISTOR	100kΩ 1/10W J
C320	DA-E218008893	CAPACITOR	22uF 16V M	R009	DA-E134647209	RESISTOR	4.7kΩ 1/10W J
C325	DA-E230003391	CAPACITOR	0.1uF 25V Z	R010	DA-E134610309	RESISTOR	10kΩ 1/10W J
C326	DA-E230003391	CAPACITOR	0.1uF 25V Z	R011	DA-E134610409	RESISTOR	100kΩ 1/10W J
C327	DA-E230003391	CAPACITOR	0.1uF 25V Z	R012	DA-E134647209	RESISTOR	4.7kΩ 1/10W J
C328	DA-E230003391	CAPACITOR	0.1uF 25V Z	R014	DA-E134610309	RESISTOR	10kΩ 1/10W J
C330	DA-E230003391	CAPACITOR	0.1uF 25V Z	R015	DA-E134647209	RESISTOR	4.7kΩ 1/10W J
C331	DA-E230003391	CAPACITOR	0.1uF 25V Z	R016	DA-E134610309	RESISTOR	10kΩ 1/10W J
C333	DA-E230003391	CAPACITOR	0.1uF 25V Z	R017	DA-E134647209	RESISTOR	4.7kΩ 1/10W J
C335	DA-E240622091	CAPACITOR	22pF DC 50V J	R018	DA-E134615209	RESISTOR	1.5kΩ 1/10W J
C339	DA-E230003391	CAPACITOR	0.1uF 25V Z	R019	DA-E134610209	RESISTOR	1kΩ 1/10W J
C341	DA-E218008893	CAPACITOR	22uF 16V M	R020	DA-E134647209	RESISTOR	4.7kΩ 1/10W J
C342	DA-E240622091	CAPACITOR	22pF DC 50V J	R024	DA-E134600009	RESISTOR	0Ω 1/10W J
C343	DA-E218008893	CAPACITOR	22uF 16V M	R026	DA-E134600009	RESISTOR	0Ω 1/10W J
C345	DA-E230003391	CAPACITOR	0.1uF 25V Z	R028	DA-E134600009	RESISTOR	0Ω 1/10W J
C346	DA-E240627291	CAPACITOR	2700pF 50V J	R029	DA-E134600009	RESISTOR	0Ω 1/10W J
C353	DA-E230003391	CAPACITOR	0.1uF 25V Z	R030	DA-E134633009	RESISTOR	33Ω 1/10W J
C354	DA-E218008893	CAPACITOR	22uF 16V M	R031	DA-E134600009	RESISTOR	0Ω 1/10W J
C356	DA-E218008893	CAPACITOR	22uF 16V M	R032	DA-E134633009	RESISTOR	33Ω 1/10W J
C357	DA-E230003391	CAPACITOR	0.1uF 25V Z	R035	DA-E134633009	RESISTOR	33Ω 1/10W J
C364	DA-E240627291	CAPACITOR	2700pF 50V J	R036	DA-E134615009	RESISTOR	15Ω 1/10W J
C373	DA-E240622091	CAPACITOR	22pF DC 50V J	R038	DA-E134600009	RESISTOR	0Ω 1/10W J
C377	DA-E218008893	CAPACITOR	22uF 16V M	R039	DA-E134600009	RESISTOR	0Ω 1/10W J
C378	DA-E230003391	CAPACITOR	0.1uF 25V Z	R042	DA-E134600009	RESISTOR	0Ω 1/10W J
C380	DA-E230003391	CAPACITOR	0.1uF 25V Z	R043	DA-E134647209	RESISTOR	4.7kΩ 1/10W J
C381	DA-E218008893	CAPACITOR	22uF 16V M	R044	DA-E134600009	RESISTOR	0Ω 1/10W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R045	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	R283	DA-E134210009	RESISTOR	100Ω 1/10W F
R046	DA-E134633009	RESISTOR	33Ω 1/10W J	R285	DA-E134622009	RESISTOR	22Ω 1/10W J
R051	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	R286	DA-E134600009	RESISTOR	0Ω 1/10W J
R052	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	R292	DA-E134600009	RESISTOR	0Ω 1/10W J
R054	DA-E134610209	RESISTOR	1kΩ 1/10W J	R293	DA-E134610309	RESISTOR	10kΩ 1/10W J
R058	DA-E134610209	RESISTOR	1kΩ 1/10W J	R294	DA-E134210009	RESISTOR	100Ω 1/10W F
R061	DA-E134210009	RESISTOR	100Ω 1/10W F	R304	DA-E134600009	RESISTOR	0Ω 1/10W J
R062	DA-E134210009	RESISTOR	100Ω 1/10W F	R305	DA-E134210009	RESISTOR	100Ω 1/10W F
R064	DA-E134600009	RESISTOR	0Ω 1/10W J	R306	DA-E134600009	RESISTOR	0Ω 1/10W J
R065	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	R308	DA-E134600009	RESISTOR	0Ω 1/10W J
R066	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	R316	DA-E134600009	RESISTOR	0Ω 1/10W J
R067	DA-E134600009	RESISTOR	0Ω 1/10W J	R318	DA-E134600009	RESISTOR	0Ω 1/10W J
R069	DA-E134610309	RESISTOR	10kΩ 1/10W J	R319	DA-E134600009	RESISTOR	0Ω 1/10W J
R071	DA-E134210009	RESISTOR	100Ω 1/10W F	R321	DA-E134600009	RESISTOR	0Ω 1/10W J
R074	DA-E134600009	RESISTOR	0Ω 1/10W J	R322	DA-E134622009	RESISTOR	22Ω 1/10W J
R076	DA-E134275099	RESISTOR	75Ω 1/10W F	R323	DA-E134600009	RESISTOR	0Ω 1/10W J
R077	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	R324	DA-E134600009	RESISTOR	0Ω 1/10W J
R078	DA-E134210009	RESISTOR	100Ω 1/10W F	R325	DA-E134600009	RESISTOR	0Ω 1/10W J
R081	DA-E134622009	RESISTOR	22Ω 1/10W J	R327	DA-E134600009	RESISTOR	0Ω 1/10W J
R082	DA-E134622009	RESISTOR	22Ω 1/10W J	R328	DA-E134600009	RESISTOR	0Ω 1/10W J
R085	DA-E134600009	RESISTOR	0Ω 1/10W J	R331	DA-E134600009	RESISTOR	0Ω 1/10W J
R087	DA-E134600009	RESISTOR	0Ω 1/10W J	R332	DA-E134600009	RESISTOR	0Ω 1/10W J
R089	DA-E134600009	RESISTOR	0Ω 1/10W J	R333	DA-E134210009	RESISTOR	100Ω 1/10W F
R090	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	R334	DA-E134210009	RESISTOR	100Ω 1/10W F
R096	DA-E134210009	RESISTOR	100Ω 1/10W F	R335	DA-E134210009	RESISTOR	100Ω 1/10W F
R099	DA-E134610309	RESISTOR	10kΩ 1/10W J	R336	DA-E134210009	RESISTOR	100Ω 1/10W F
R102	DA-E134210009	RESISTOR	100Ω 1/10W F	R339	DA-E134210009	RESISTOR	100Ω 1/10W F
R104	DA-E134210009	RESISTOR	100Ω 1/10W F	R340	DA-E134600009	RESISTOR	0Ω 1/10W J
R105	DA-E134610309	RESISTOR	10kΩ 1/10W J	R341	DA-E134600009	RESISTOR	0Ω 1/10W J
R106	DA-E134275099	RESISTOR	75Ω 1/10W F	R343	DA-E134600009	RESISTOR	0Ω 1/10W J
R108	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	R350	DA-E134600009	RESISTOR	0Ω 1/10W J
R109	DA-E134612209	RESISTOR	1.2kΩ 1/10W 1J	R351	DA-E134222009	RESISTOR	220Ω 1/10W F
R110	DA-E134610309	RESISTOR	10kΩ 1/10W J	R353	DA-E134210009	RESISTOR	100Ω 1/10W F
R112	DA-E134600009	RESISTOR	0Ω 1/10W J	R354	DA-E134615009	RESISTOR	15Ω 1/10W J
R113	DA-E134600009	RESISTOR	0Ω 1/10W J	R360	DA-E134600009	RESISTOR	0Ω 1/10W J
R114	DA-E134610309	RESISTOR	10kΩ 1/10W J	R361	DA-E134610209	RESISTOR	1kΩ 1/10W J
R115	DA-E134610309	RESISTOR	10kΩ 1/10W J	R362	DA-E134610309	RESISTOR	10kΩ 1/10W J
R116	DA-E134610309	RESISTOR	10kΩ 1/10W J	R363	DA-E134600009	RESISTOR	0Ω 1/10W J
R124	DA-E134610309	RESISTOR	10kΩ 1/10W J	R366	DA-E134610409	RESISTOR	100kΩ 1/10W J
R128	DA-E134610409	RESISTOR	100kΩ 1/10W J	R367	DA-E134651009	RESISTOR	51Ω 1/10W J
R138	DA-E134682209	RESISTOR	8.2kΩ 1/10W J	R368	DA-E134651009	RESISTOR	51Ω 1/10W J
R139	DA-E134610409	RESISTOR	100kΩ 1/10W J	R375	DA-E134622009	RESISTOR	22Ω 1/10W J
R148	DA-E134622909	RESISTOR	2.2Ω 1/10W J	R376	DA-E134622009	RESISTOR	22Ω 1/10W J
R151	DA-E134600009	RESISTOR	0Ω 1/10W J	R377	DA-E134622009	RESISTOR	22Ω 1/10W J
R164	DA-E134622909	RESISTOR	2.2Ω 1/10W J	R378	DA-E134622009	RESISTOR	22Ω 1/10W J
R166	DA-E134600009	RESISTOR	0Ω 1/10W J	R379	DA-E134600009	RESISTOR	0Ω 1/10W J
R175	DA-E134610309	RESISTOR	10kΩ 1/10W J	R380	DA-E134600009	RESISTOR	0Ω 1/10W J
R178	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	R381	DA-E134622009	RESISTOR	22Ω 1/10W J
R183	DA-E134210009	RESISTOR	100Ω 1/10W F	R382	DA-E134610209	RESISTOR	1kΩ 1/10W J
R185	DA-E134622009	RESISTOR	22Ω 1/10W J	R383	DA-E134600009	RESISTOR	0Ω 1/10W J
R186	DA-E134633309	RESISTOR	33kΩ 1/10W J	R386	DA-E134600009	RESISTOR	0Ω 1/10W J
R187	DA-E134622009	RESISTOR	22Ω 1/10W J	R387	DA-E134600009	RESISTOR	0Ω 1/10W J
R188	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	R388	DA-E134600009	RESISTOR	0Ω 1/10W J
R189	DA-E134612209	RESISTOR	1.2kΩ 1/10W 1J	R389	DA-E134600009	RESISTOR	0Ω 1/10W J
R190	DA-E134622109	RESISTOR	220Ω 1/10W J	R390	DA-E134600009	RESISTOR	0Ω 1/10W J
R193	DA-E134615309	RESISTOR	15kΩ 1/10W J	R391	DA-E134600009	RESISTOR	0Ω 1/10W J
R196	DA-E134600009	RESISTOR	0Ω 1/10W J	R392	DA-E134600009	RESISTOR	0Ω 1/10W J
R197	DA-E134622009	RESISTOR	22Ω 1/10W J	R393	DA-E134600009	RESISTOR	0Ω 1/10W J
R204	DA-E134600009	RESISTOR	0Ω 1/10W J	R394	DA-E134600009	RESISTOR	0Ω 1/10W J
R206	DA-E134610309	RESISTOR	10kΩ 1/10W J	R395	DA-E134600009	RESISTOR	0Ω 1/10W J
R210	DA-E134275099	RESISTOR	75Ω 1/10W F	R396	DA-E134600009	RESISTOR	0Ω 1/10W J
R215	DA-E134275099	RESISTOR	75Ω 1/10W F	R398	DA-E134624309	RESISTOR	24kΩ 1/10W J
R220	DA-E134610309	RESISTOR	10kΩ 1/10W J	R399	DA-E134246429	RESISTOR	46.4kΩ 1/10W F
R223	DA-E134600009	RESISTOR	0Ω 1/10W J	R400	DA-E134615309	RESISTOR	15kΩ 1/10W J
R224	DA-E134600009	RESISTOR	0Ω 1/10W J	R403	DA-E134600009	RESISTOR	0Ω 1/10W J
R226	DA-E134600009	RESISTOR	0Ω 1/10W J	R411	DA-E134600009	RESISTOR	0Ω 1/10W J
R228	DA-E134600009	RESISTOR	0Ω 1/10W J	R412	DA-E134600009	RESISTOR	0Ω 1/10W J
R229	DA-E134624209	RESISTOR	2.4kΩ 1/10W J	R414	DA-E134610209	RESISTOR	1kΩ 1/10W J
R230	DA-E134624209	RESISTOR	2.4kΩ 1/10W J	R416	DA-E134610209	RESISTOR	1kΩ 1/10W J
R231	DA-E134624209	RESISTOR	2.4kΩ 1/10W J	R417	DA-E134610209	RESISTOR	1kΩ 1/10W J
R232	DA-E134624209	RESISTOR	2.4kΩ 1/10W J	R418	DA-E134610209	RESISTOR	1kΩ 1/10W J
R233	DA-E134600009	RESISTOR	0Ω 1/10W J	R419	DA-E134610209	RESISTOR	1kΩ 1/10W J
R234	DA-E134610309	RESISTOR	10kΩ 1/10W J	R420	DA-E134610209	RESISTOR	1kΩ 1/10W J
R235	DA-E134600009	RESISTOR	0Ω 1/10W J	R421	DA-E134610209	RESISTOR	1kΩ 1/10W J
R236	DA-E134600009	RESISTOR	0Ω 1/10W J	R422	DA-E134610209	RESISTOR	1kΩ 1/10W J
R237	DA-E134622109	RESISTOR	220Ω 1/10W J	RP01	DA-E160310101	NET RESISTOR	33Ω J x4
R238	DA-E134668009	RESISTOR	68Ω 1/10W J	RP04	DA-E160310101	NET RESISTOR	33Ω J x4
R240	DA-E134668009	RESISTOR	68Ω 1/10W J	RP11	DA-E160310101	NET RESISTOR	33Ω J x4
R241	DA-E134610209	RESISTOR	1kΩ 1/10W J	RP12	DA-E160310101	NET RESISTOR	33Ω J x4
R256	DA-E134622009	RESISTOR	22Ω 1/10W J	RP13	DA-E160310101	NET RESISTOR	33Ω J x4
R257	DA-E134656209	RESISTOR	5.6kΩ 1/10W J	RP14	DA-E160310101	NET RESISTOR	33Ω J x4
R258	DA-E134647209	RESISTOR	4.7kΩ 1/10W J	RP19	DA-E160310166	NET RESISTOR	560Ω J x4
R260	DA-E134210009	RESISTOR	100Ω 1/10W F	RP20	DA-E160310166	NET RESISTOR	560Ω J x4
R261	DA-E134210009	RESISTOR	100Ω 1/10W F	RP21	DA-E160310108	NET RESISTOR	22Ω J x4
R268	DA-E134600009	RESISTOR	0Ω 1/10W J	RP22	DA-E160310108	NET RESISTOR	22Ω J x4
R275	DA-E134610309	RESISTOR	10kΩ 1/10W J	RP23	DA-E160310108	NET RESISTOR	22Ω J x4
R282	DA-E134210009	RESISTOR	100Ω 1/10W F	RP24	DA-E160310108	NET RESISTOR	22Ω J x4

△Ref No.	Part No.	Part Name	Description Local
RP25	DA-E160310108	NET RESISTOR	22Ω J x4
RP27	DA-E160310101	NET RESISTOR	33Ω J x4
RP29	DA-E160310101	NET RESISTOR	33Ω J x4
RP30	DA-E160310138	NET RESISTOR	15Ω J x4
RP31	DA-E160310138	NET RESISTOR	15Ω J x4
RP32	DA-E160310138	NET RESISTOR	15Ω J x4
RP33	DA-E160310138	NET RESISTOR	15Ω J x4
RP34	DA-E160310138	NET RESISTOR	15Ω J x4
RP35	DA-E160310138	NET RESISTOR	15Ω J x4
RP36	DA-E160310138	NET RESISTOR	15Ω J x4
RP37	DA-E160310138	NET RESISTOR	15Ω J x4
RP38	DA-E160310126	NET RESISTOR	100Ω J x4
RP39	DA-E160310126	NET RESISTOR	100Ω J x4

L001	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P
L002	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P
L003	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L004	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P
L005	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P
L006	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L007	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L008	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L009	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L010	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L011	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L012	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L013	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L015	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L016	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P
L018	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L019	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L021	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P
L022	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P
L024	DA-E062143500	COIL	CHK-435 55uH
L029	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P
L040	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P
L045	DA-E062132419	FERRITE BEADS	MLI-321611-150
L046	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L047	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L048	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L051	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L052	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P
L055	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L056	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L057	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L060	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L062	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L064	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L065	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L066	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L068	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L069	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L072	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L076	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L078	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L080	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L081	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L082	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L085	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L086	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L087	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L088	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L089	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L090	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L091	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L094	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L095	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L096	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L097	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L098	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L099	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L100	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L101	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L102	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L104	DA-E062133008	FERRITE BEADS	MLB-201209-0150A-N1
L105	DA-E062132343	FERRITE BEADS	MLB-451616-0060P-N1P

△F001	DA-E054470091	FUSE	125V 7A
X001	DA-F699122903	CRYSTAL	10MHz
X002	DA-F699153630	CRYSTAL	18.432MHz
X003	DA-F699106034	CRYSTAL	14.318MHz
P001	DA-E782511015	CONNECTOR	
P002	DA-E782511014	CONNECTOR	
P003	DA-E782522001	CONNECTOR	
P004	DA-E782510014	CONNECTOR	
P006	DA-E782510013	CONNECTOR	
△P007	DA-E782406001	CONNECTOR	DC JACK

△Ref No.	Part No.	Part Name	Description Local
P009	DA-E782510011	CONNECTOR	
P012	DA-E782511016	CONNECTOR	
P017	DA-E782971500	CONNECTOR	
P018	DA-E782511014	CONNECTOR	
P019	DA-E782511015	CONNECTOR	
P020	DA-E782522000	CONNECTOR	
P026	DA-E782510012	CONNECTOR	
P028	DA-E782511016	CONNECTOR	

IR SENSOR P.W. BOARD ASS'Y DA-5098801028 (PWB-0915-PART B-01)

△Ref No.	Part No.	Part Name	Description Local
IR01	DA-F642003904	IC	TSOP48
D001	DA-F618018175	LED	POWER
C021	DA-E218007993	CAPACITOR	100uF 16V M
C026	DA-E230021691	CAPACITOR	4.7uF DC 16V Z
R075	DA-E134210009	RESISTOR	100Ω 1/10W F
P005	DA-E782510011	CONNECTOR	

AV JACK P.W. BOARD ASS'Y DA-098801029 (PWB-0916-PART B-01)

△Ref No.	Part No.	Part Name	Description Local
Z601	DA-F615002361	Z DIODE	MMSZ5231B
Z602	DA-F615002361	Z DIODE	MMSZ5231B
Z603	DA-F615002361	Z DIODE	MMSZ5231B
Z604	DA-F615002361	Z DIODE	MMSZ5231B
Z605	DA-F615002361	Z DIODE	MMSZ5231B
Z606	DA-F615002361	Z DIODE	MMSZ5231B
Z607	DA-F615002361	Z DIODE	MMSZ5231B
Z608	DA-F615002361	Z DIODE	MMSZ5231B
Z609	DA-F615002361	Z DIODE	MMSZ5231B
Z610	DA-F615002361	Z DIODE	MMSZ5231B
Z611	DA-F615002361	Z DIODE	MMSZ5231B
Z612	DA-F615002361	Z DIODE	MMSZ5231B
Z613	DA-F615002361	Z DIODE	MMSZ5231B
Z614	DA-F615002361	Z DIODE	MMSZ5231B
Z615	DA-F615002361	Z DIODE	MMSZ5231B
Z617	DA-F615002361	Z DIODE	MMSZ5231B
Z619	DA-F615002361	Z DIODE	MMSZ5231B
Z621	DA-F615002361	Z DIODE	MMSZ5231B
Z622	DA-F615002361	Z DIODE	MMSZ5231B
Z623	DA-F615002361	Z DIODE	MMSZ5231B
Z624	DA-F615002361	Z DIODE	MMSZ5231B
Z625	DA-F615002361	Z DIODE	MMSZ5231B
C601	DA-E230016791	CAPACITOR	10uF 10V
C602	DA-E230016791	CAPACITOR	10uF 10V
C603	DA-E240633091	CAPACITOR	33pF 50V
C604	DA-E240633091	CAPACITOR	33pF 50V
C605	DA-E230016791	CAPACITOR	10uF 10V
C606	DA-E230016791	CAPACITOR	10uF 10V
C607	DA-E240633091	CAPACITOR	33pF 50V
C608	DA-E240633091	CAPACITOR	33pF 50V
C609	DA-E230016791	CAPACITOR	10uF 10V
C610	DA-E240633091	CAPACITOR	33pF 50V
C611	DA-E230016791	CAPACITOR	10uF 10V
C612	DA-E230016791	CAPACITOR	10uF 10V
C613	DA-E240633091	CAPACITOR	33pF 50V
C614	DA-E240633091	CAPACITOR	33pF 50V
C617	DA-E240633091	CAPACITOR	33pF 50V
C618	DA-E240633091	CAPACITOR	33pF 50V
C622	DA-E230016791	CAPACITOR	10uF 10V
C624	DA-E240633091	CAPACITOR	33pF 50V
C627	DA-E230016791	CAPACITOR	10uF 10V
C631	DA-E240633091	CAPACITOR	33pF 50V
C634	DA-E230016791	CAPACITOR	10uF 10V
C635	DA-E240633091	CAPACITOR	33pF 50V
R604	DA-E134275099	RESISTOR	75Ω F
R605	DA-E134275099	RESISTOR	75Ω F
R606	DA-E134622209	RESISTOR	2.2kΩ

△Ref No.	Part No.	Part Name	Description Local
R607	DA-E134275099	RESISTOR	75Ω F
R612	DA-E134275099	RESISTOR	75Ω F
R613	DA-E134275099	RESISTOR	75Ω F
R617	DA-E134275099	RESISTOR	75Ω F
L601	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L602	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L603	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L604	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L605	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L606	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L607	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L610	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L612	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L617	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
L619	DA-E062132317	FERRITE BEADS	MLB-160808-0030A-N2
P601	DA-E782502000	CONNECTOR	
P602	DA-E782402000	S JACK	VIDEO1 S-IN
P603	DA-E782404005	AV JACK	VIDEO1 V IN
P604	DA-E782404006	AV JACK	VIDEO1 L IN
P605	DA-E782404003	AV JACK	VIDEO1 R IN
P606	DA-E782404007	AV JACK	VIDEO2 COMP-Y IN
P607	DA-E782404009	AV JACK	VIDEO2 COMP-Pb IN
P608	DA-E782404008	AV JACK	VIDEO2 COMP-Pr IN
P609	DA-E782404006	AV JACK	VIDEO2 L IN
P610	DA-E782404003	AV JACK	VIDEO2 R IN

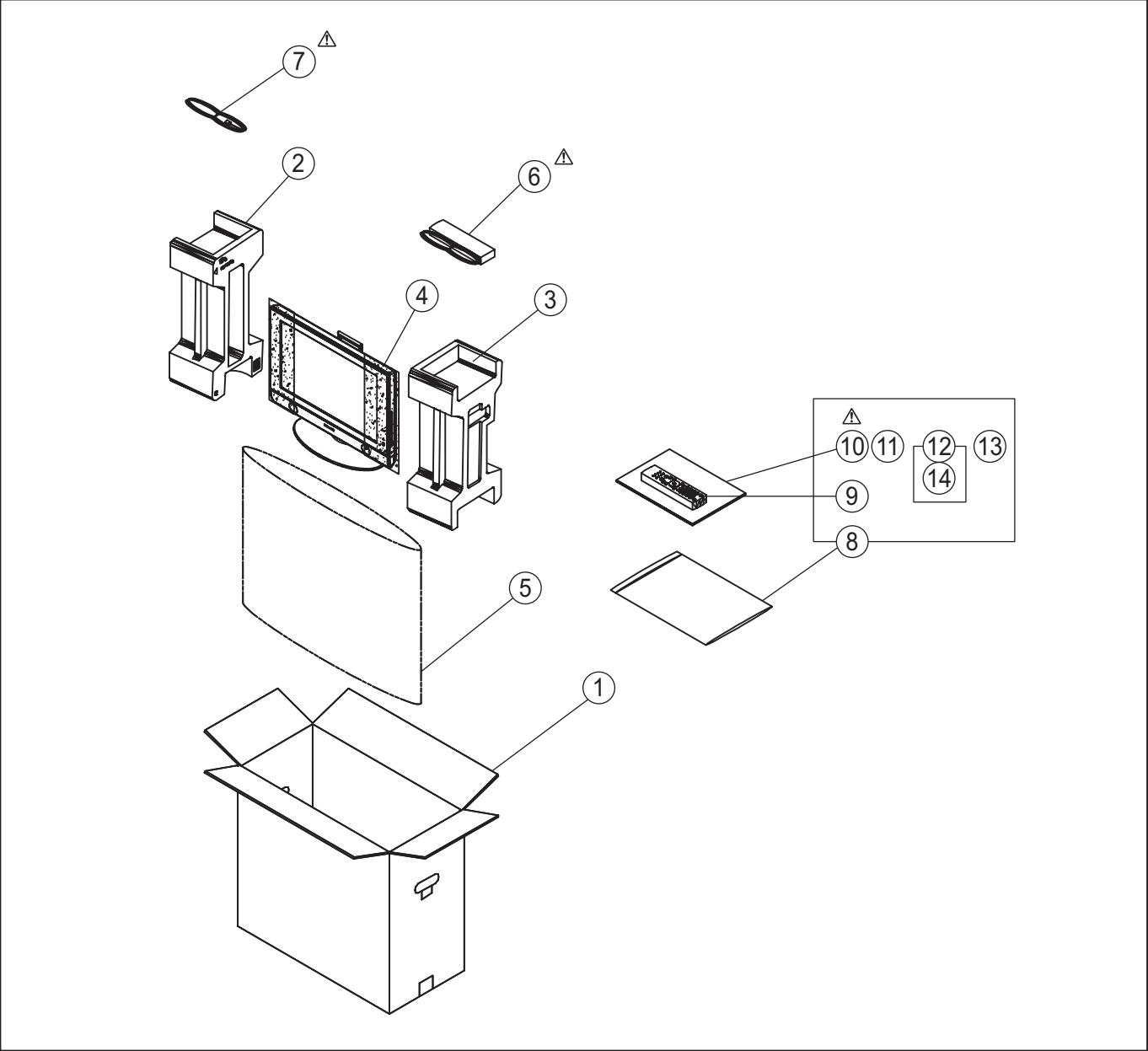
FRONT CONTROL P.W. BOARD ASS'Y DA-5098801032 (PWB-0916-PART B-01)

△Ref No.	Part No.	Part Name	Description Local
R602	DA-E142127195	RESISTOR	270Ω 1/6W
R603	DA-E142127195	RESISTOR	270Ω 1/6W
S601	DA-E054513070	TACT SWITCH	CH-
S602	DA-E054513070	TACT SWITCH	CH+
S603	DA-E054513070	TACT SWITCH	VOL-
S604	DA-E054513070	TACT SWITCH	VOL+
S605	DA-E054513070	TACT SWITCH	MENU
S606	DA-E054513070	TACT SWITCH	INPUT
S607	DA-E054513070	TACT SWITCH	POWER
P611	DA-E782510014	CONNECTOR	
P612	DA-E782510012	CONNECTOR	
P613	DA-E782510012	CONNECTOR	
P614	DA-E782405000	3.5 JACK	HEADPHONE

TUNER P.W. BOARD ASS'Y DA-5098801030 (PWB-0916-PART C-01)

△Ref No.	Part No.	Part Name	Description Local
C615	DA-E218007993	CAPACITOR	100uF 16V
C616	DA-E230622391	CAPACITOR	22nF
C619	DA-E230622391	CAPACITOR	22nF
C620	DA-E218007893	CAPACITOR	10uF 16V
C621	DA-E218007993	CAPACITOR	100uF 16V
R608	DA-E134600009	RESISTOR	0Ω
R609	DA-E134610409	RESISTOR	100kΩ
R610	DA-E134600009	RESISTOR	0Ω
R614	DA-E134600009	RESISTOR	0Ω
R615	DA-E134600009	RESISTOR	0Ω
L609	DA-E062132343	FERRITE BEADS	HH-1H4516-600
U601	DA-E052110022	TUNER	TUNER
P615	DA-E782502001	CONNECTOR	
P616	DA-E782400016	CONNECTOR	PAL JACK

PACKING



PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
1	DA-I513530356	CARTON BOX		LT-20A5
1	DA-I513530456	CARTON BOX		LT-20A5/S
2	DA-I523530156	CUSHION (L)		
3	DA-I523530256	CUSHION (R)		
4	DA-I533399956	POLY BAG	For SET(x2)	
5	DA-I533399856	POLY BAG	For SET	
△ 6	DA-E061370349	AC ADAPTER		
△ 7	DA-E056706170	POWER CORD		LT-20A5
△ 7	DA-E056706169	POWER CORD		LT-20A5/S
8	DA-I533389756	POLY BAG	For ACCESSORIS	
9	DA-E052731049	REMOCON UNIT	RM-C1861	
△ 10	DA-E030057177	INST BOOK		
11	-----	BATTERY	(x2)	
12	-----	POLY BAG	For WARRANTY CARD	
13	DA-E056513200	PLUG ADAPTER		
14	-----	WARRANTY CARD		

JVC

SCHEMATIC DIAGRAMS

LCD FLAT TELEVISION

LT-20A5, LT-20A5/s

CD-ROM No. SML200511



LT-20A5, LT-20A5/s

STANDARD CIRCUIT DIAGRAM

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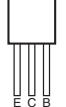
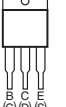
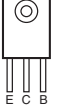


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USING P.W. BOARD


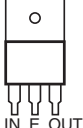
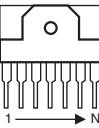
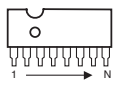
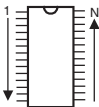
P.W.B. ASS'Y	LT-20A5	LT-20A5/S
MAIN P.W. BOARD	DA-5098801027 (PWB-0915-PARTA-02)	←
IR SENSOR PW. BOARD	DA-5098801028 (PWB-0915-PARTB02)	←
AV JACK P.W. BOARD	DA-5098801029 (PWB-0916-PARTA-02)	←
FRONT CONTROL P.W. BOARD	DA-5098801032 (PWB-0916-PARTB-02)	←
TUNER P.W. BOARD	DA-5098801030 (PWB-0916-PARTC-02)	←

SEMICONDUCTOR SHAPES

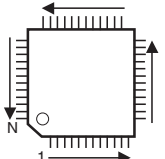
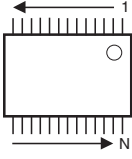
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

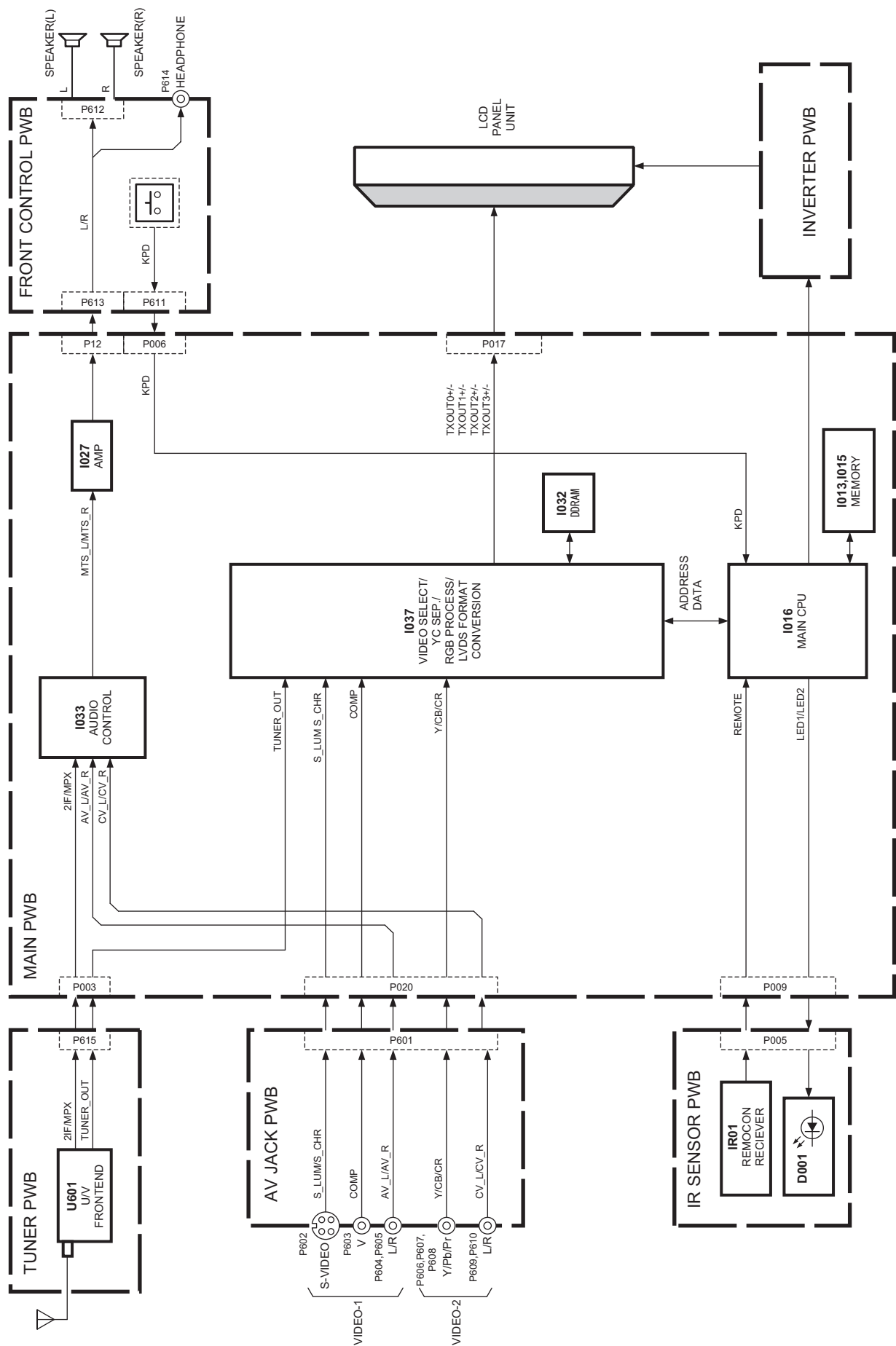
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BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

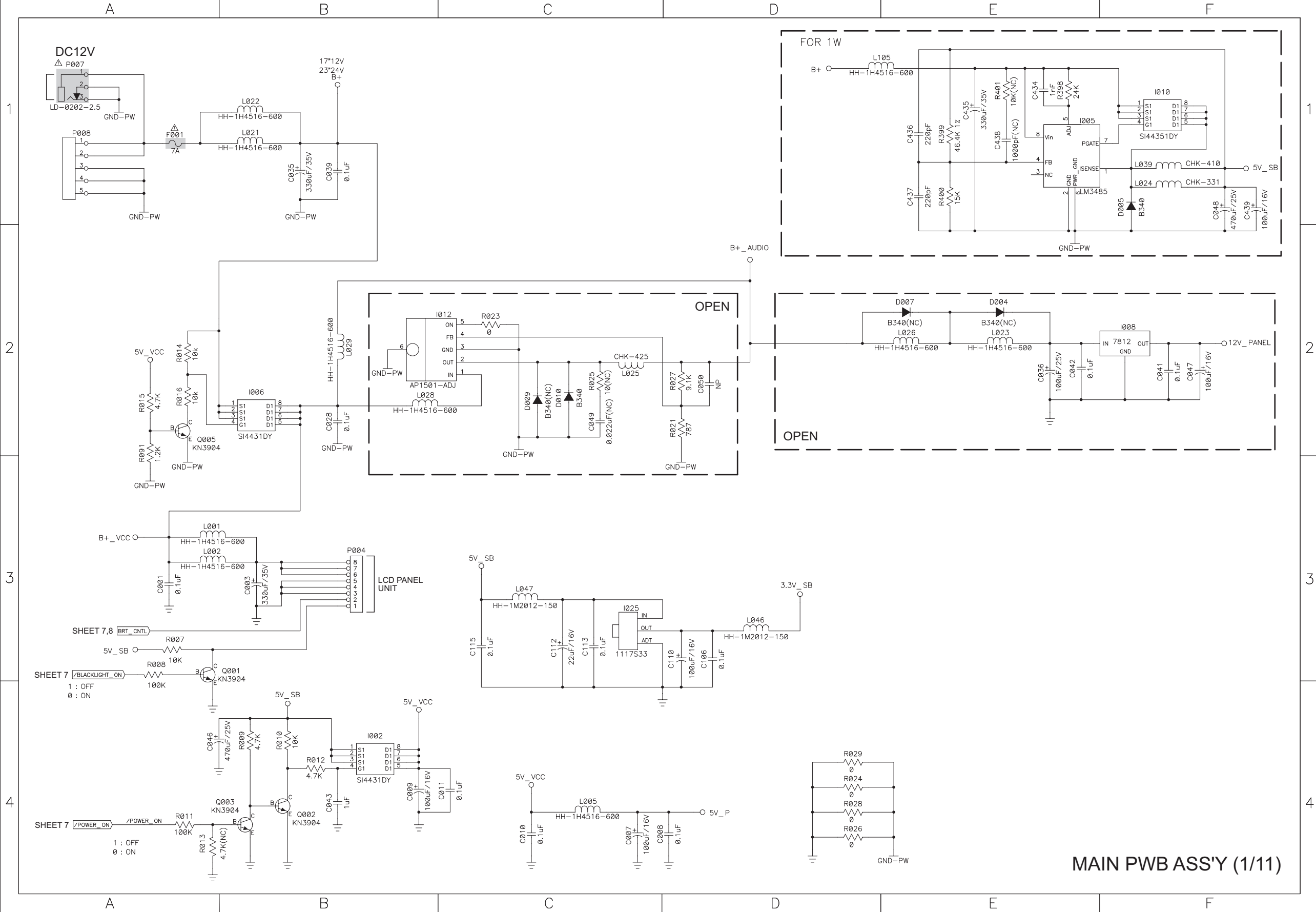
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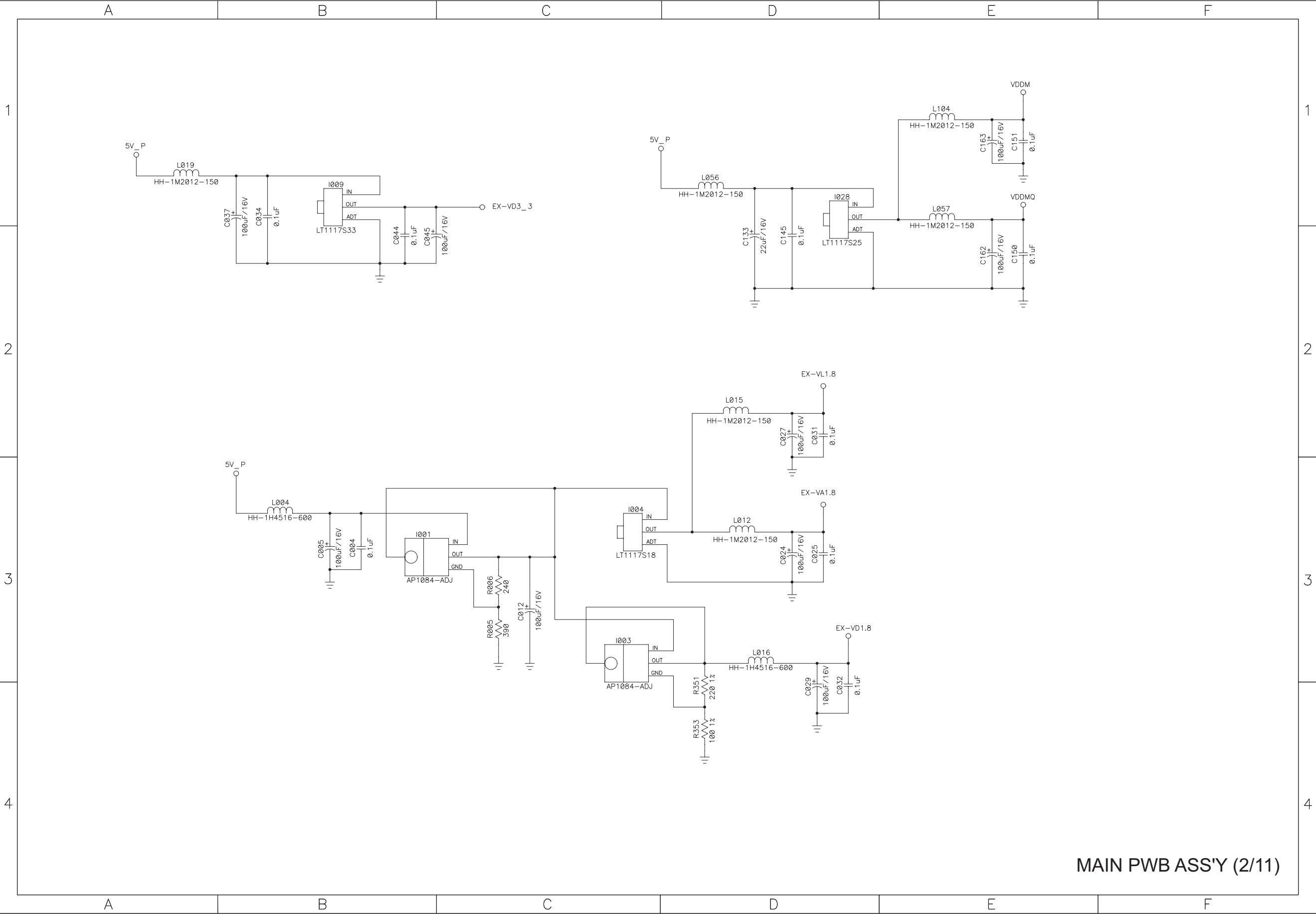
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BLOCK DIAGRAM

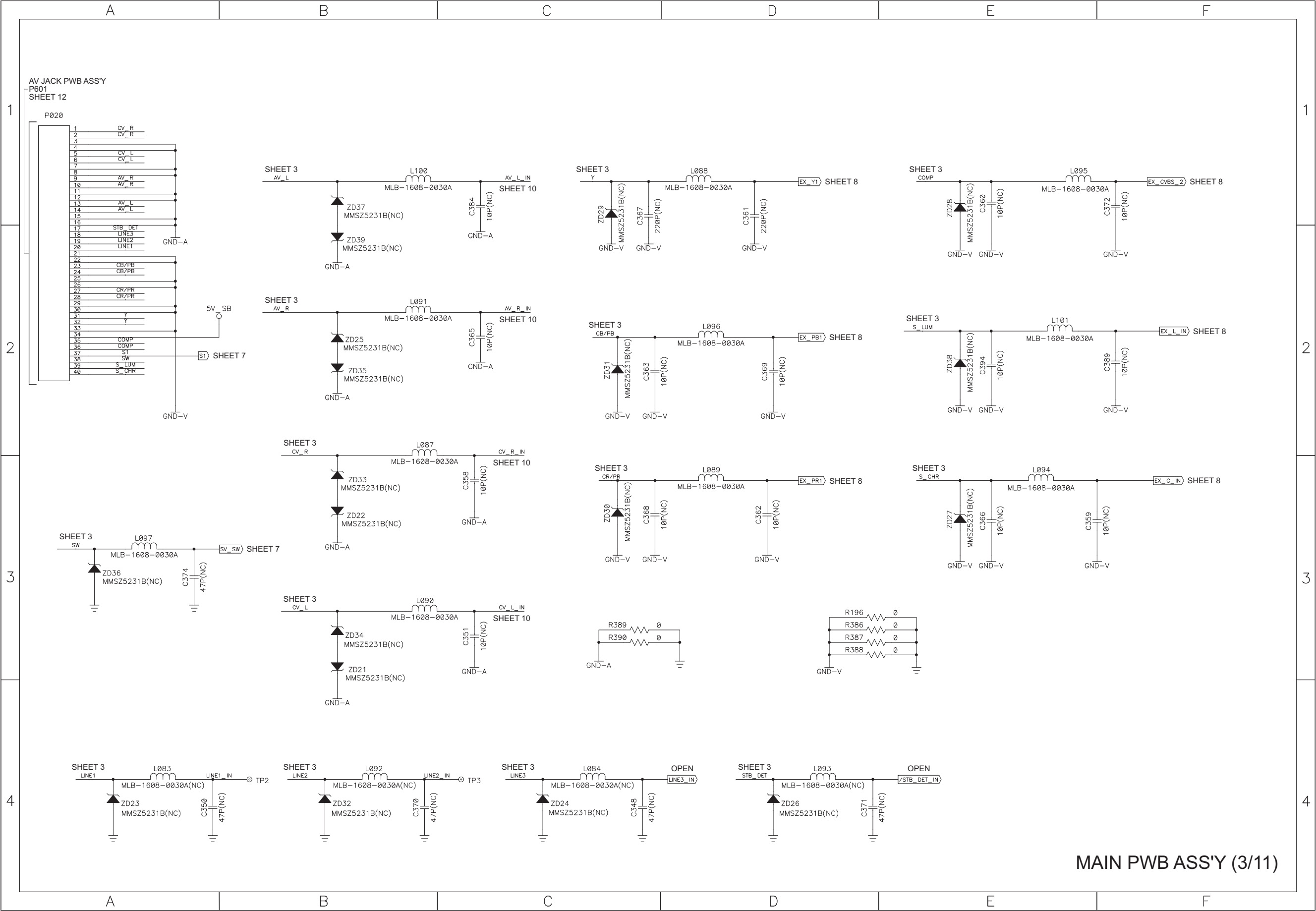


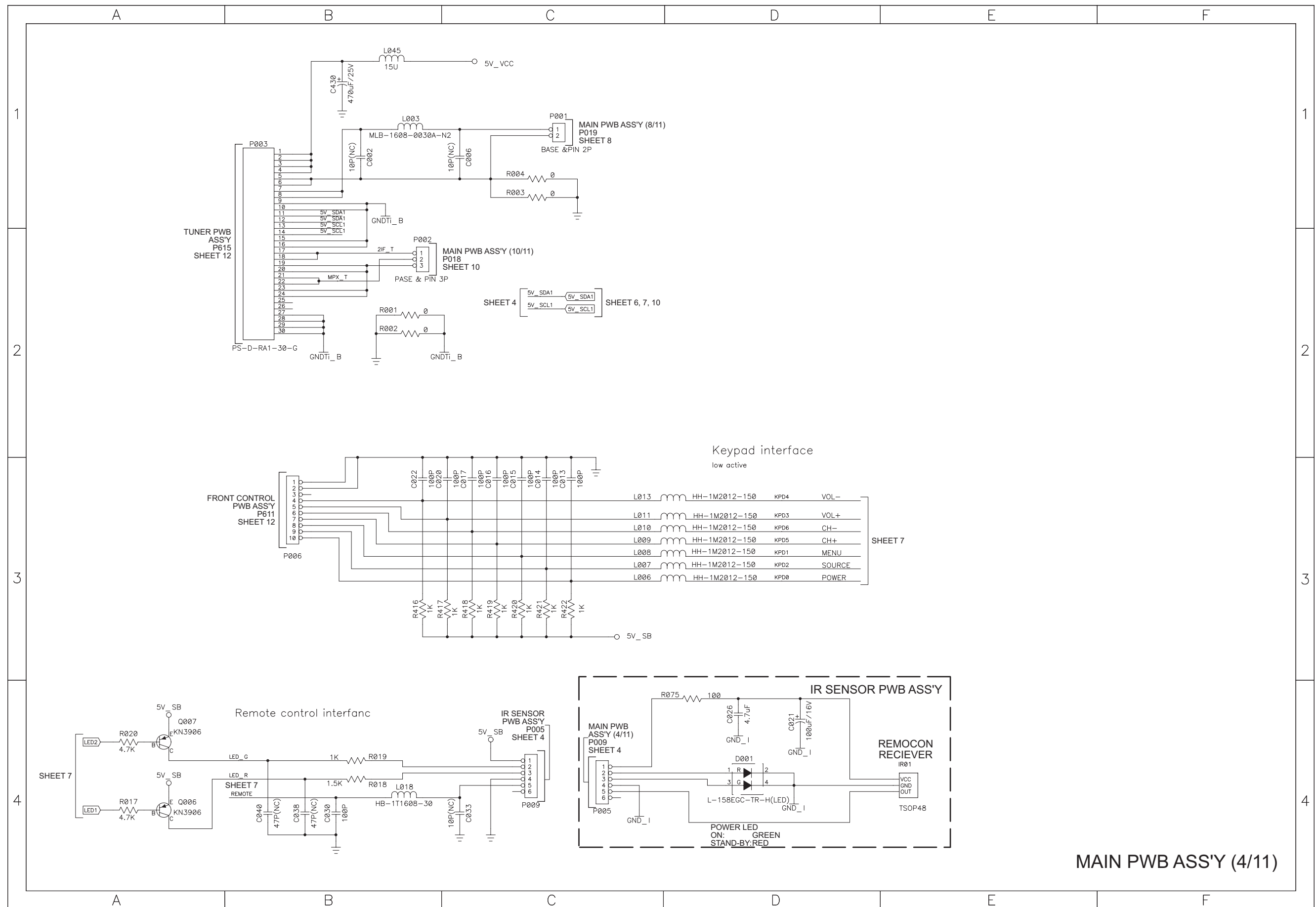
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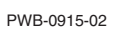


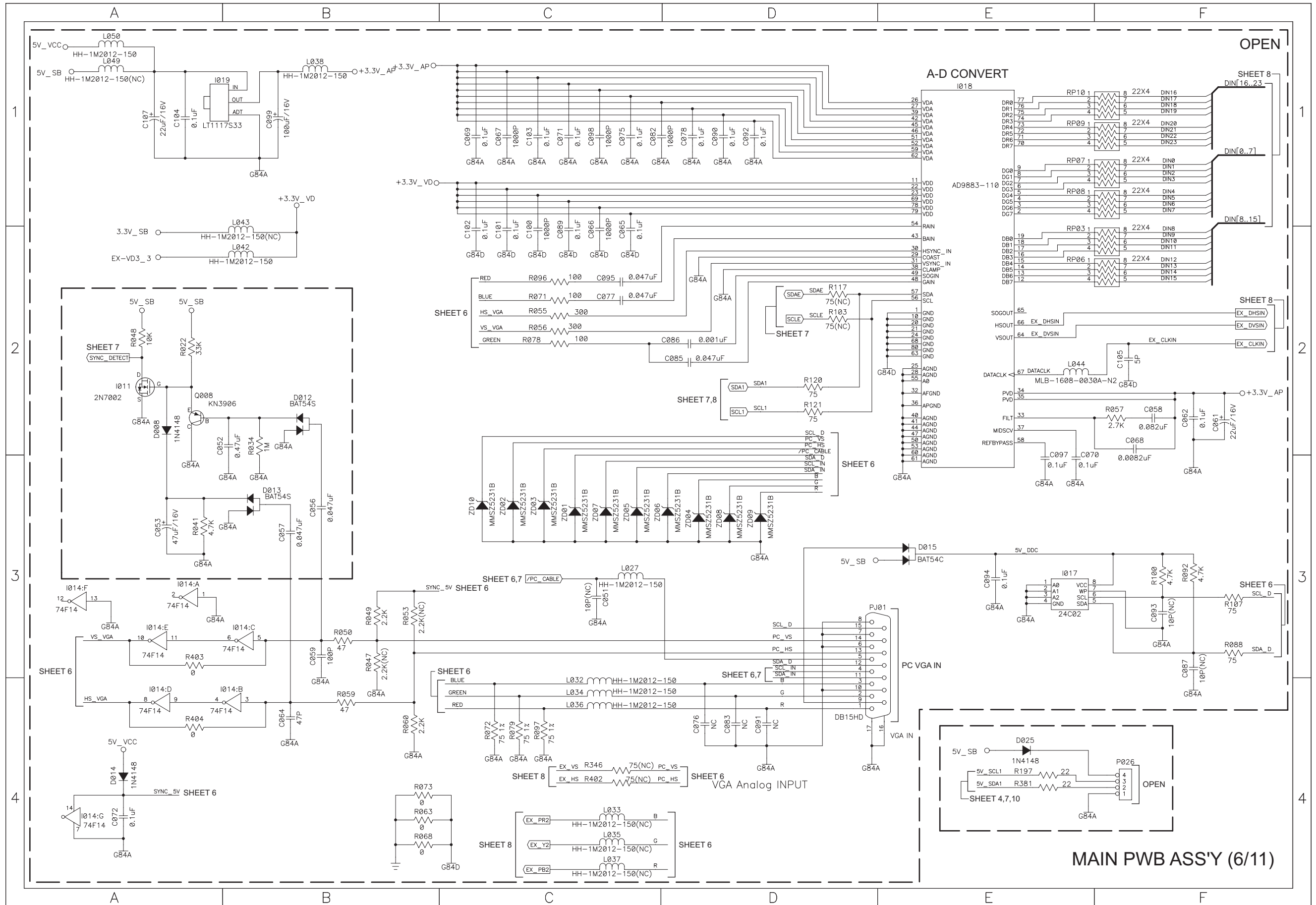


MAIN PWB ASS'Y (2/11)

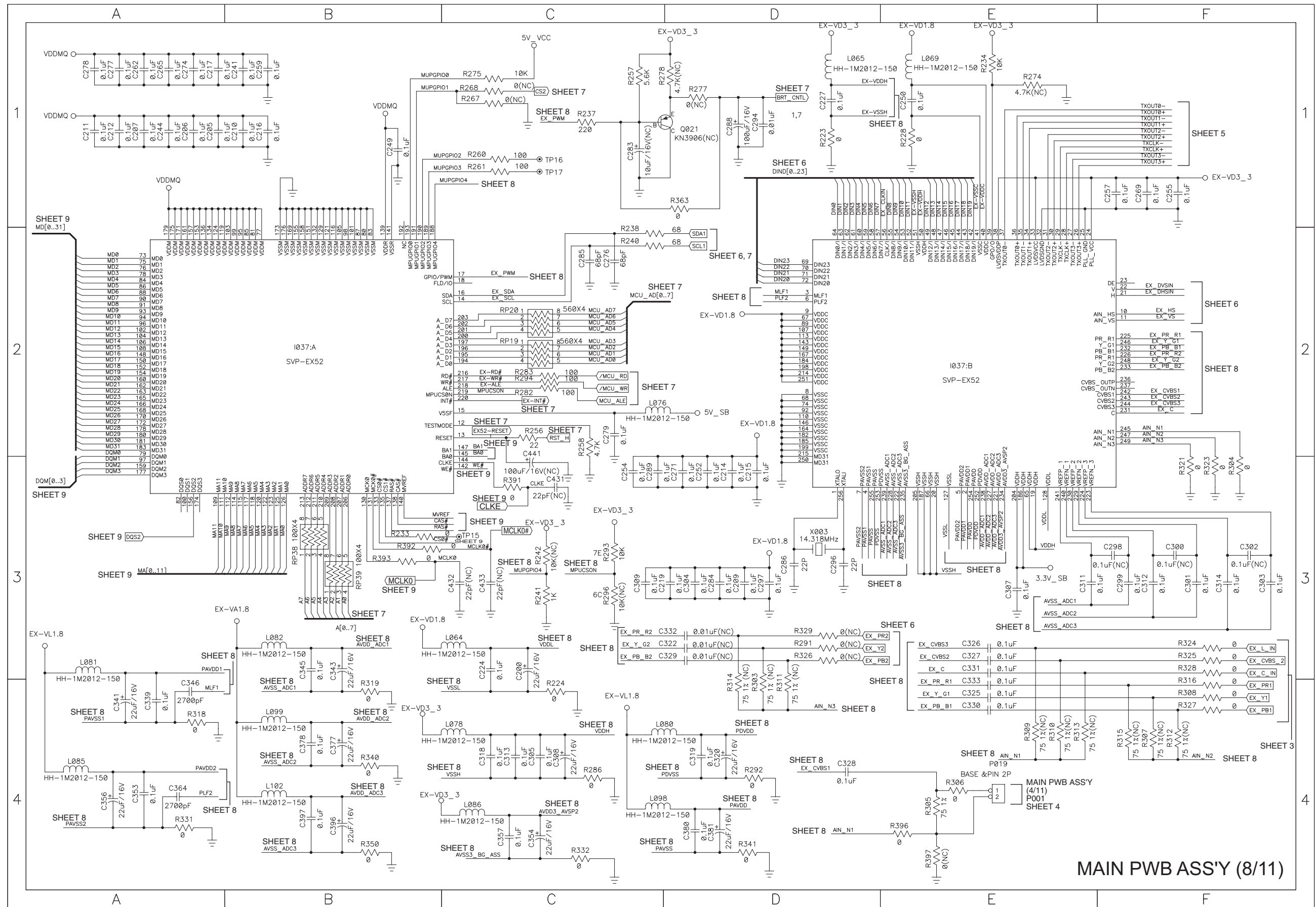


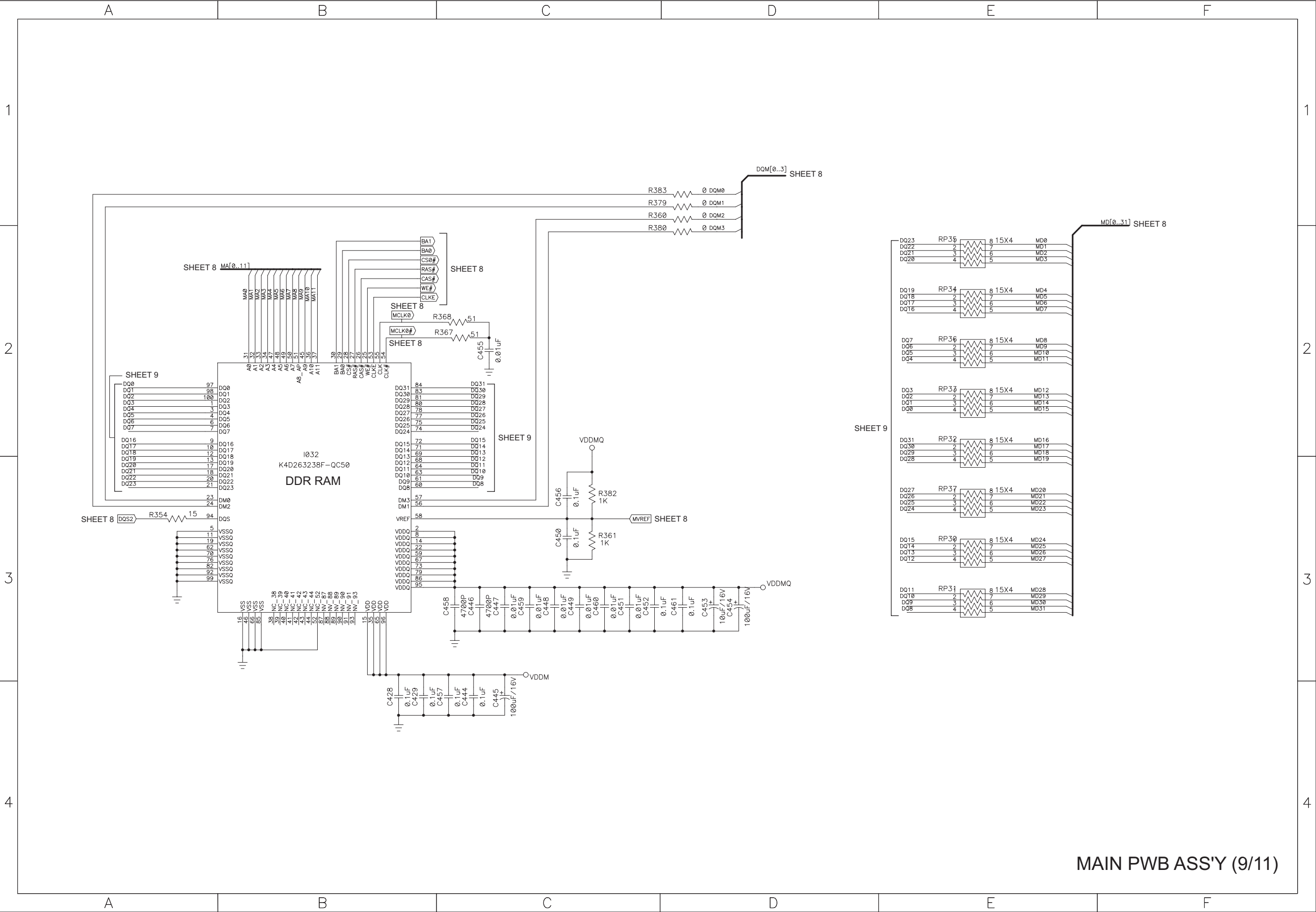




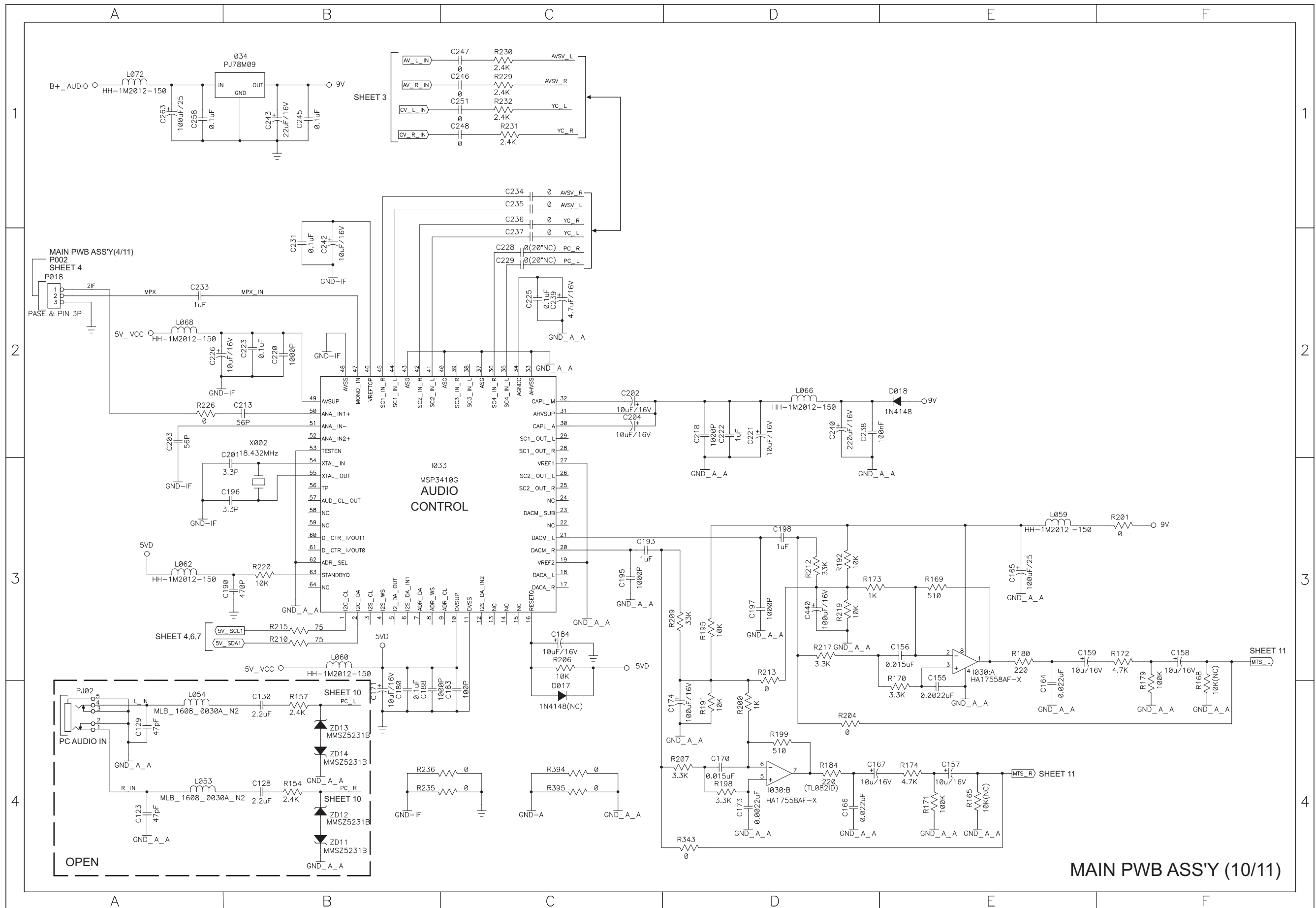


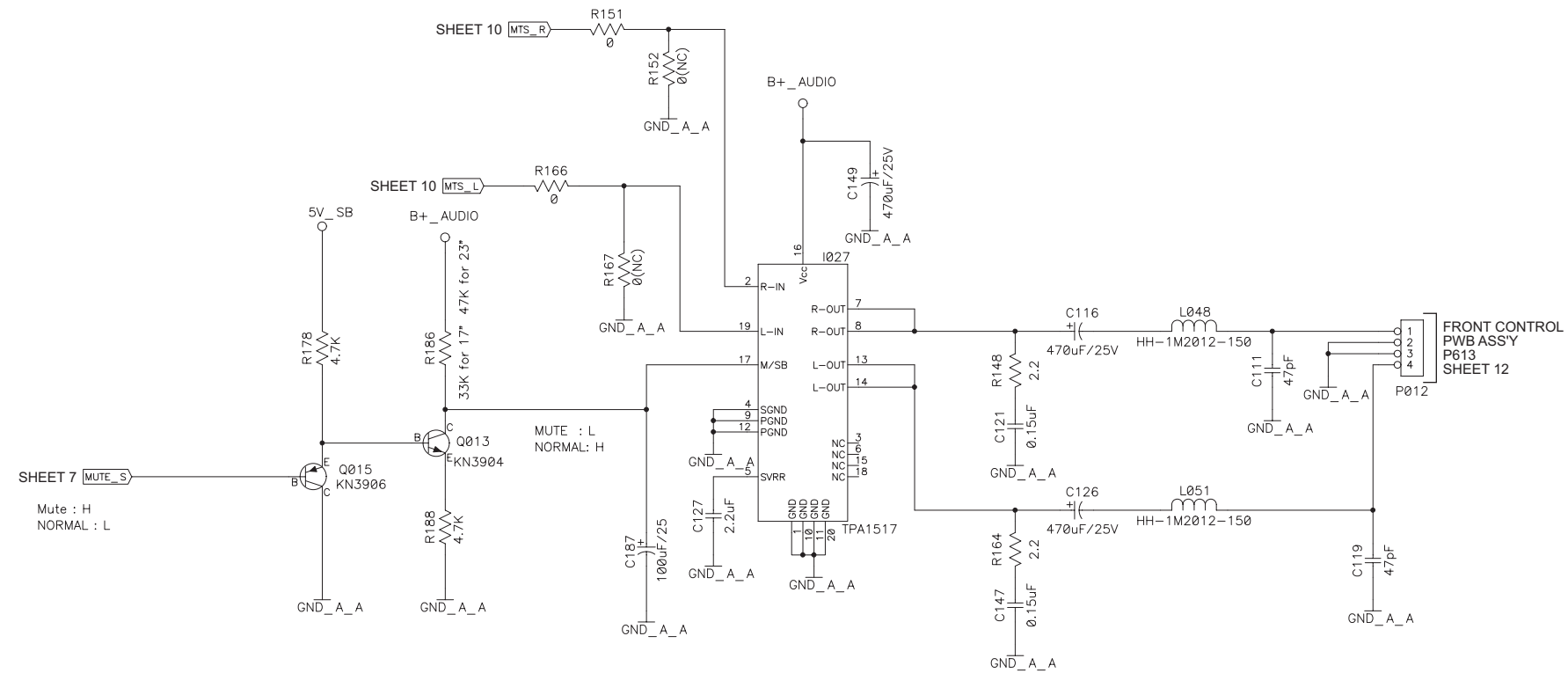


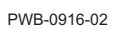




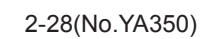
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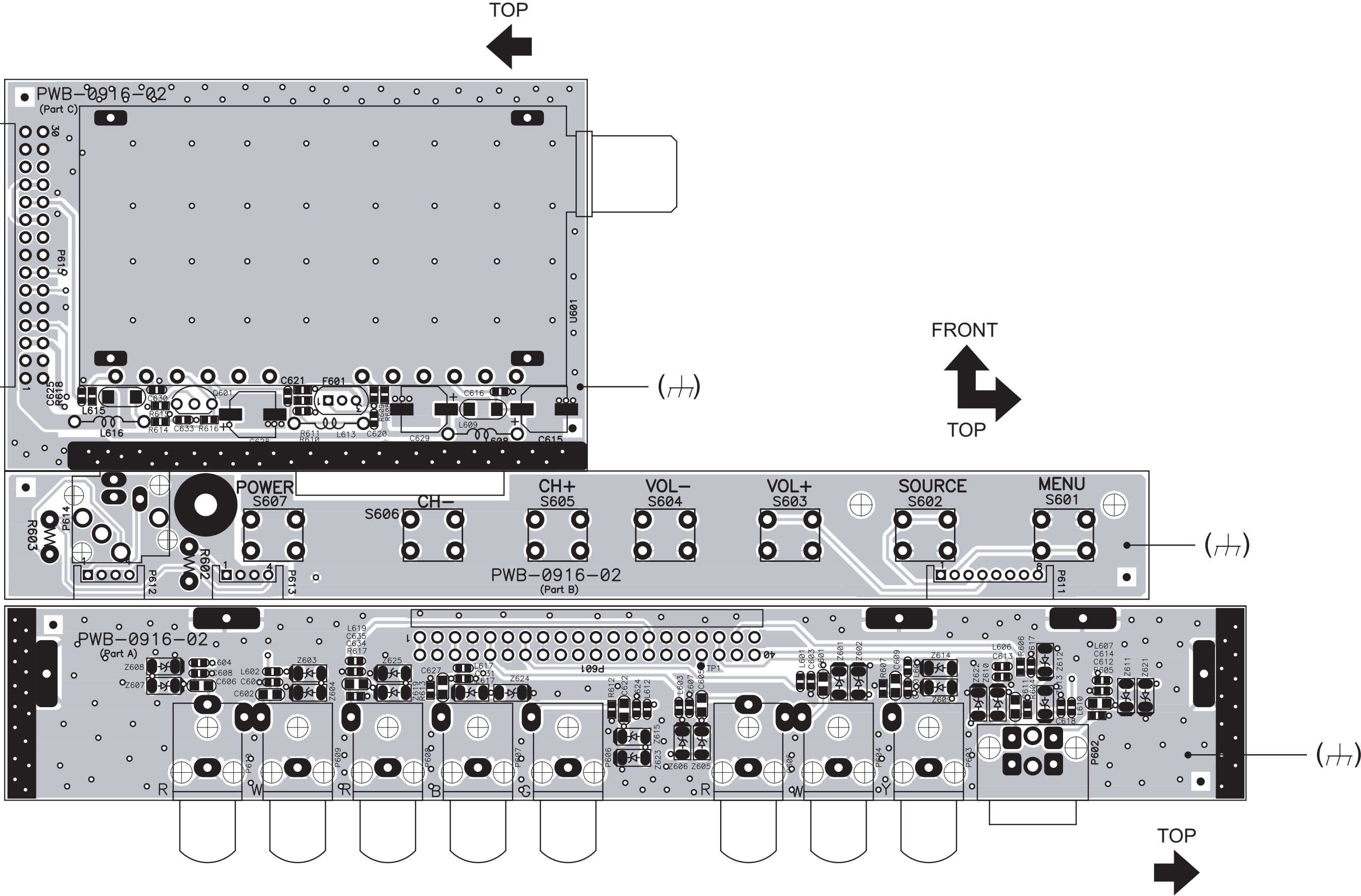






MAIN PWB AND IR SENSOR PWB PATTERN







Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY DISPLAY CATEGORY 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA350)



Printed in Japan
VPT